

IET BOOKS 2015

- Computing & Management
- Control, Robotics & Sensors
- Electromagnetic Waves
- Transportation
- Materials, Circuits & Devices
- Energy Engineering
- Radar, Sonar & Navigation
- Security
- Telecommunications
- Textbooks & Training
- History of Technology
- Electrical Regulations
- Model Form of General Conditions of Contract
- IET Standards

Welcome to IET Books 2015

The Institution of Engineering and Technology (IET) is a specialist publisher for the global engineering and technology community and offers an acclaimed listing of print and eBook titles across a range of disciplines.






Providing international researchers, professionals and students, with new perspectives and developments in emerging subject areas, as well as forward-looking publications in traditional engineering topics, the IET's high-quality book portfolio provides a comprehensive resource for the engineering and technology community.

The IET 2015 Books catalogue lists our new and most recent titles available from both our IET and SciTech Publishing imprints, along with a selection of our backlist, providing you with the opportunity to conveniently browse our range. To place an order, or for further information, please do speak to our sales team or one of our regional representatives (see pages 48-51 for contact details).

Contents

Welcome to IET Books	2
Catalogue Highlights	3
Computing & Management	4
Control, Robotics & Sensors	6
Electromagnetic Waves	10
Transportation	16
Materials, Circuits & Devices	17
Energy Engineering	19
Radar, Sonar & Navigation	24
Security	29
Telecommunications	30
Textbooks & Training	34
History of Technology	37
Electrical Regulations	38
Model Form of General Conditions of Contract	45
IET Standards	46
Ordering Information	48
Order Form	49
Booksellers and Representatives	50
Index	56

KEY

	IET
	SciTech
	eBook
	Textbook
	Electrical Standards Plus

Catalogue Highlights



MODELLING AND CONTROL OF FLEXIBLE ROBOT MANIPULATORS

M.Osman Tokhi and Abdul Azad

Provides an account of the progress being made in the field of modelling and control of lightweight flexible manipulator systems.

» See page 7 for further information.

CLEAN MOBILITY AND INTELLIGENT TRANSPORT SYSTEMS

Michele Fiorini & Jia-chin Lin (eds.)

This new book provides a complete overview of the topic, encompassing the full spectrum of transport from land to sea and aircraft.

» See page 16 for further information.

RELIABILITY OF POWER ELECTRONIC CONVERTER SYSTEMS

Henry Shu-ling Chung et al (eds.)

With contributions from an international team of experts, this new book outlines research and development into the reliability of PECs.

» See page 21 for further information.

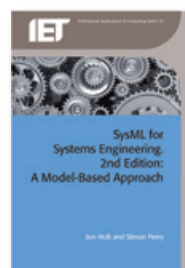
HIGHER ORDER OF NUMERICAL SOLUTION TECHNIQUES IN ELECTROMAGNETICS

Roberto D. Graglia and Andrew F. Peterson

A unique approach to computational electromagnetics is offered in this book from the viewpoint of vector fields and vector currents.

» See page 10 for further information.

Also available...

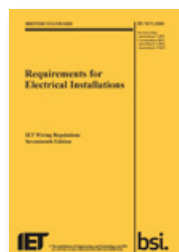


SysML FOR SYSTEMS ENGINEERING 2nd edition: A Model-Based Approach

Jon Holt and Simon Perry

This 2nd edition is an essential introduction to SysML 1.3, the latest version of the standard, ideal for practising systems engineers.

» See page 5 for further information.



REQUIREMENTS FOR ELECTRICAL INSTALLATIONS: IET WIRING REGULATIONS BS 7671

Amendment No. 3 to BS 7671:2008 contains vital updates to safety information. All users of the IET Wiring Regulations will need to update their copy.

» See page 38 for further information.



STIMSON'S INTRODUCTION TO AIRBORNE RADAR

3rd edition

Hugh Griffiths, Christopher Baker and Dave Adamy

This long awaited 3rd edition is widely acknowledged as the only book to offer a complete technical presentation of modern airborne radar principles.

» See pages 25 & 34 for further information.



ON-SITE GUIDE

Fully updated to Amendment No. 3 to BS 7671:2008, this is an essential quick reference guide to the IET Wiring Regulations.

» See page 38 for further information.



Full details and further 2015 titles are available throughout this catalogue



Due Summer 2015

Hardback • c.450pp

ISBN: 978-1-84919-893-6

Product code: PBPC0130

£75 • \$120



TRUSTED PLATFORM MODULES: WHY, WHEN AND HOW TO USE THEM

Ariel Segall

Trusted Computing is an emerging technology which will reportedly make computers safer, less prone to viruses and malware, and thus more reliable from an end-user perspective. Chip manufacturers Intel and AMD, hardware manufacturers such as Dell, and operating system providers such as Microsoft, all plan to include Trusted Computing in future products. Government departments including the US Army and Department of Defense now also require that every new PC it purchases must come with a Trusted Platform Module (TPM).

This practical introduction aims to debunk the myths around TPMs and trusted computing. It focuses on the main uses for TPMs and includes practical considerations such as when they should and shouldn't be used, and the advantages of using them. It demonstrates, through real-world case studies and worked examples, how they can be used to substantially improve platform and network security.

Trusted Platform Modules is essential reading for professionals in industry and government who are using this technology. It will also be of practical value to researchers, students and computer enthusiasts interested in the trusted computing area.



Due Autumn 2015

Hardback c.376pp

ISBN: 978-1-84919-851-6

Product code: PBPC0120

£95 • \$150



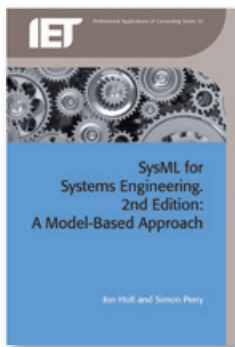
SEMANTIC CONTENT EXTRACTION FOR EFFECTIVE VIDEO ANALYSIS, UNDERSTANDING AND RETRIEVAL

Jinchang Ren and Junwei Han

With the dramatic growth of digital video over the Internet, and rapid development of network and multimedia techniques, making effective use of these vast amounts of data has become a big challenge. This book describes the latest concepts, algorithms, models and applications of semantic video analysis that enable content-based intelligent interpretation and management of video content.

It covers seven main research topics including: saliency computation in images and videos; model-based shot boundary detection; extraction of semantic contents and events for video highlights indexing and annotation; activity-driven video summarisation; content-based image retrieval using relevance feedback; video retrieval and clustering using fMRI-derived features; and the relatively unexplored area of stereo video generation and retrieval for 3D-TV.

Researchers and graduate students, in academia and industry, interested in visual computing, multimedia and computer vision will find this book useful. It will also be of relevance to professionals and practitioners, from fields such as media, broadcasting, museums, film production and online entertainment, who are interested in improving media asset management and content delivery.



2014

Hardback • 952pp

ISBN: 978-1-84919-651-2

Product code: PBPC0100

£89 • \$147



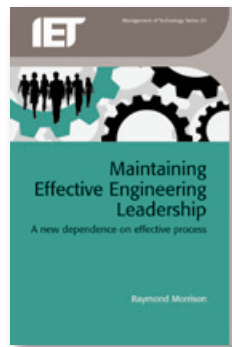
SysML FOR SYSTEMS ENGINEERING

2nd edition: A Model-Based Approach

Jon Holt and Simon Perry

SysML is a tailored version of the unified modelling language (UML) that meets the needs of today's systems engineering professional. This 2nd edition has been fully updated to reflect SysML 1.3, the latest version of the standard and is an essential introduction to the implementation of model-based systems engineering using SysML for practising systems engineers, students and project managers.

NEW



2013

Hardback • 280pp

ISBN: 978-1-84919-689-5

Product code: PBMT0290

£58 • \$96



MAINTAINING EFFECTIVE ENGINEERING LEADERSHIP: A NEW DEPENDENCE ON EFFECTIVE PROCESS

Raymond Morrison

Maintaining Effective Engineering Leadership explores a framework of skills and processes as a means of maintaining leadership development. It uses the 2003 space shuttle Columbia disaster as a primary example to highlight the importance of key leadership skills including personal managerial skills, self-leadership, and operational and organisational leadership. It also introduces the Capability Maturity Model which provides organisations with the appropriate processes and knowledge guidelines to ensure effective leadership to avoid similar disasters.

Other available titles

e	Title	Author(s)/Editor(s)	Format	Pub date	Price (£)	Price (\$)	ISBN	Product Code
✓	VALU, AVX and GPU Acceleration Techniques for Parallel FDTD Methods	Yu, Yang & Li	Hardback	2013	63	100	978-1-61353-174-7	SBPC5020
✓	Lean Product Development: A manager's guide	C. Mynott	Hardback	2012	62	100	978-1-84919-671-0	PBMT0280
✓	Model-Based Requirements Engineering	Holt, Perry & Bownsword	Paperback	2011	70	119	978-1-84919-487-7	PBPC0090
✓	Modelling Enterprise Architectures	J. Holt & S. Perry	Paperback	2010	60	99	978-1-84919-077-0	PBPC0080
✓	Effective Team Leadership for Engineers	P. Wellington	Paperback	2009	34	58	978-0-86341-954-6	PBMT0250
✓	How to Build Successful Business Relationships	F. Kay	Paperback	2009	34	58	978-0-86341-956-0	PBMT0270
✓	SysML for Systems Engineering	J. Holt & S. Perry	Paperback	2008	70	119	978-0-86341-825-9	PBPC0070
✓	The Art of Successful Business Communication	P. Forsyth	Paperback	2008	34	58	978-0-86341-907-2	PBMT0240
✓	A Guide to MATLAB Object-Oriented Programming	A. Register	Paperback	2007	63	101	978-1-58488-911-3	SBPC001Z
✓	Demystifying Marketing: A guide to the fundamentals for engineers	P. Forsyth	Paperback	2007	41	70	978-0-86341-806-8	PBMT0230
✓	Intelligent Distributed Video Surveillance Systems	S.A. Velastin & P. Remagnino (eds.)	Hardback	2006	65	109	978-0-86341-504-3	PBPC0050
✓	Intellectual Property Rights for Engineers, 2nd edition	V. Irish	Hardback	2005	38	64	978-0-86341-490-9	PBMT0220
✓	Trusted Computing	C. Mitchell (ed.)	Hardback	2005	70	119	978-0-86341-525-8	PBPC0060
✓	UML for Systems Engineering: Watching the wheels, 2nd edition	J. Holt	Hardback	2004	65	109	978-0-86341-354-4	PBPC0040
✓	Developing Effective Engineering Leadership	R.E. Morrison & C.W. Ericsson	Hardback	2003	46	79	978-0-85296-214-5	PBMT0210



See the IET Journals 2015 catalogue for our range of journals in the field of computing.



Due Spring 2015

Hardback • c.408pp

ISBN: 978-1-84919-824-0

Product code: PBCE0960

£85 • \$140



CYBER-PHYSICAL SYSTEM DESIGN WITH SENSOR NETWORKING TECHNOLOGIES

Editors: Sherali Zeadally and Nafaâ Jabeur

A cyber-physical system (CPS) is a network of collaborating computational elements which are integrated to control the physical world. Common applications of CPS typically fall under sensor-based communication-enabled autonomous systems, for example smart grid, autonomous automotive systems, medical monitoring, process control systems, distributed robotics, and automatic pilot avionics.

This is the first book in this new area and it uniquely focuses on sensor networks in cyber-physical systems. It describes how wireless sensor networking technologies can help in establishing and maintaining seamless communications between the physical and cyber systems - acquiring data, pushing data from the physical system to the cyber system, and routing decisions to appliances.

Cyber-Physical System Design with Sensor Networking Technologies is essential reading for researchers working on autonomous systems, sensor networks, and robotics and control. It will also be invaluable for advanced students studying these areas.



Due Summer 2015

Hardback • c.200pp

ISBN: 978-1-84919-703-8

Product code: PBCE0940

£90 • \$145



ANALYSIS AND DESIGN OF RESET CONTROL SYSTEMS

Yuqian Guo, Lihua Xie and Youyi Wang

Reset control is concerned with the reset of a system, when it is disturbed, to overcome the inherent limitations of linear feedback control and improve robustness. It has found applications in many practical systems including flexible mechanical systems, tape-speed control systems, and high-precision positioning systems.

This book provides a comprehensive introduction to the theory of reset control. It draws on the authors' own research, and that of others, to explore the application of reset control in a variety of settings, with an emphasis on hard disk drive servo systems.

Topics covered include: Basic concepts of reset control; Robust stability; Frequency domain analysis; Reset control systems with discrete-time reset conditions; Reset control design; and Application of reset control to hard disk drive servo systems.



MODELLING AND CONTROL OF FLEXIBLE ROBOT MANIPULATORS

M.Osman Tokhi and Abdul Azad

This book provides an account of the progress being made in the field of the modelling and control of lightweight flexible manipulator systems. It covers the main issues in system simulation and modelling, classical and advanced control and soft computing control.

For each section it gives an overview of the problem as well as a review of the current thinking. It also looks at algorithm development and evaluation, software development for computer implementation of the algorithm, verification and assessment of the results, and there are references for further reading.

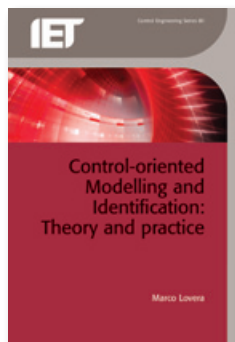
Due Summer 2015

Hardback c.250pp

ISBN: 978-1-84919-583-6

Product code: PBCE0860

£95 • \$150



CONTROL-ORIENTED MODELLING AND IDENTIFICATION: THEORY AND PRACTICE

NEW

Editor: Marco Lovera

This comprehensive collection covers the state-of-the-art in control-oriented modelling and identification techniques. With contributions from leading researchers in the subject, it covers the main methods and tools available to develop advanced mathematical models suitable for control system design, including an overview of the problems that can arise during the design process. It also takes a practical look at a variety of applications of advanced modelling and identification techniques.

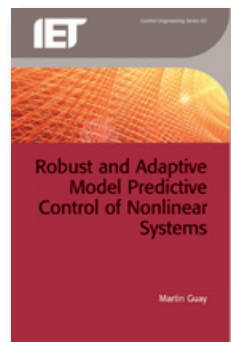
Due Winter 2015

Hardback • 456pp

ISBN: 978-1-84919-614-7

Product code: PBCE0800

£75 • \$120



ROBUST AND ADAPTIVE MODEL PREDICTIVE CONTROL OF NONLINEAR SYSTEMS

NEW

Martin Guay

This book offers a novel approach to adaptive control and provides a sound theoretical background to designing robust adaptive control systems with guaranteed transient performance. It focuses on the more typical role of adaptation as a means of coping with uncertainties in the system model.

Topics covered include: estimation in adaptive control; performance improvement in adaptive control; and robust adaptive model predictive control for systems with exogeneous disturbances. This is essential reading for academics and advanced students working in control theory and applications.

Due Winter 2015

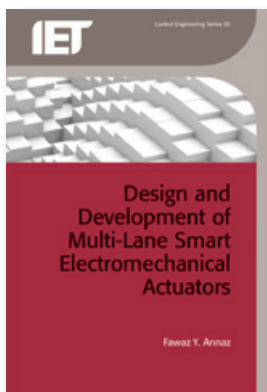
Hardback • c.250pp

ISBN: 978-1-84919-552-2

Product code: PBCE0830

£75 • \$120





eBook only*

DESIGN AND DEVELOPMENT OF MULTI-LANE SMART ELECTROMECHANICAL ACTUATORS

NEW

Fawaz Y. Annaz

This eBook presents the design of electromechanical actuators in two types of architectures, namely, Torque Summed Architecture (TSA) and Velocity Summed Architecture, (VSA).

Design and Development of Multi-Lane Smart Electromechanical Actuators will give readers the necessary theoretical background to design smart multi-lane electromechanical actuation systems and will provide a general methodology that engineers (electrical, mechanical, mechatronics, aerospace or chemical) will find useful.

2014

eBook • 124pp

eISBN: 978-1-84919-656-7

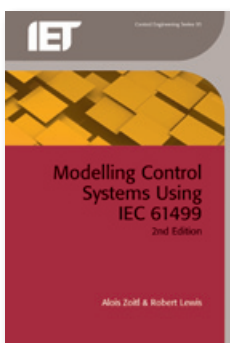
Product code: PBCE0930

£80 • \$130



*This book is only available online via the IET Digital Library at:

www.ietdl.org/designdevelop



MODELLING CONTROL SYSTEMS USING IEC 61499

NEW

2nd edition

Robert Lewis & Alois Zötl

Significantly updated to incorporate the changes introduced to the IEC 61499 standard since 2001, this 2nd edition provides a concise introduction to the main concepts and models defined in the standard for modelling distributed control systems for use in factory automation.

This book is essential reading for academic and research-led control and process engineers in addition to students working in research fields that require complex control systems using networked-based distributed control.

2014

Hardback • 248pp

ISBN: 978-1-84919-760-1

Product code: PBCE0950

£85 • \$140



See the IET Journals 2015 catalogue for our range of journals in the fields of control, robotics & sensors.

Other available titles

e	Title	Author(s)/Editor(s)	Format	Pub date	Price (£)	Price (\$)	ISBN	Product Code
✓	Application of Dimensional Analysis in Systems Modelling and Control Design	P. Balaguer	Hardback	2013	74	118	978-1-84919-621-5	PBCE0900
✓	Control-based Operating System Design	Leva, Maggio, Vittorio, Papadopoulos, & Terraneo	Hardback	2013	74	118	978-1-84919-609-3	PBCE0890
✓	Handbook of Vehicle Suspension Control Systems	Liu, Gao, Li	Hardback	2013	95	151	978-1-84919-633-8	PBCE0920
✓	Nonlinear and Adaptive Control Systems	Z. Ding	Hardback	2013	68	109	978-1-84919-574-4	PBCE0840
✓	An Introduction to Fractional Control	D. Valério & J. Sá da Costa	Hardback	2012	78	127	978-1-84919-545-4	PBCE0910
✓	Control Theory: A Guided Tour, 3rd edition	J.R. Leigh	Hardback	2012	72	119	978-1-84919-227-9	PBCE0720
✓	Developments in Control Theory towards Glocal Control	H. Fujioka (ed.)	Hardback	2012	99	164	978-1-84919-533-1	PBCE0760
✓	Distributed Control and Filtering for Industrial Systems	M.S. Mahmoud	Hardback	2012	104	172	978-1-84919-607-9	PBCE0880
✓	Frequency-Domain Control Design for High Performance Systems	J. O'Brien	Hardback	2012	88	147	978-1-84919-481-5	PBCE0780
✓	Further Advances in Unmanned Marine Vehicles	Roberts & Sutton	Hardback	2012	104	170	978-1-84919-479-2	PBCE0770
✓	Optimal Adaptive Control and Differential Games by Reinforcement Learning Principles	Vrabie, Vamvoudakis & Lewis	Hardback	2012	104	172	978-1-84919-489-1	PBCE0810
✓	Adaptive Sampling with Mobile WSN: Simultaneous robot localisation and mapping of paramagnetic spatio-temporal fields	K. Sreenath	Hardback	2011	82	138	978-1-84919-257-6	PBCE0730
✓	Advanced Control for Constrained Processes and Systems	F. Garelli et al.	Hardback	2011	82	138	978-1-84919-261-3	PBCE0750
✓	Eigenstructure Control Algorithms: Applications to aircraft/rotorcraft handling qualities design	S. Srinathkumar	Paperback	2011	82	138	978-1-84919-259-0	PBCE0740
✓	Advances in Cognitive Systems	S. Nefti-Meziani (ed.)	Hardback	2010	98	167	978-1-84919-075-6	PBCE0710
✓	Flexible Robot Manipulators: Modelling, simulation and control	M.O.Tokhi & A.K.M. Azad (eds.)	Hardback	2008	82	138	978-0-86341-448-0	PBCE0680
✓	Advances in Unmanned Marine Vehicles	G. Roberts & R. Sutton (eds.)	Hardback	2006	82	138	978-0-86341-450-3	PBCE0690
✓	Intelligent Control Systems using Computational Intelligence Techniques	A. Ruano (ed.)	Hardback	2005	82	138	978-0-86341-489-3	PBCE0700
✓	Motion Vision: design of compact motion sensing solutions for navigation of autonomous systems	J. Kolodko & L. Vlacic	Hardback	2005	82	138	978-0-86341-453-4	PBCE0670
✓	Control Theory, 2nd edition	J.R. Leigh	Paperback	2004	36	59	978-0-86341-339-1	PBCE064Z
✓	Human Factors for Engineers	C. Sandom & R. Harvey (eds.)	Hardback	2004	67	112	978-0-86341-329-2	PBNS0320
✓	Modelling and Parameter Estimation of Dynamic Systems	Raol, Girija & Singh	Hardback	2004	87	147	978-0-86341-363-6	PBCE0650
✓	Variable Structure Systems: From principles to implementation	A. Sabanovic, L. Fridman & S. Spurgeon (eds.)	Hardback	2004	87	147	978-0-86341-350-6	PBCE0660
✓	Active Sound and Vibration Control: Theory and applications	O. Tokhi & S. Veres (eds.)	Hardback	2002	85	147	978-0-85296-038-7	PBCE0620
✓	Stepping Motors: A guide to theory and practice, 4th edition	P.P. Acarnley	Paperback	2002	41	70	978-0-85296-417-0	PBCE063Z

View the entire range of Control eBooks, available to download by chapter or full text, by visiting the IET Digital Library:

www.ietdl.org/ebooks



Due Summer 2015

Hardback • c.575pp

ISBN: 978-1-61353-175-4

Product code: SBEW5140

£80 • \$125



THE FINITE-DIFFERENCE TIME-DOMAIN FOR ELECTROMAGNETICS: WITH MATLAB® SIMULATIONS

2nd edition

Atef Elsherbeni and Veysel Demir

This is one of the best books on computational electromagnetics for graduate students and practicing engineering professionals in industry and government. It is designed as an advanced textbook and self-study guide to the FDTD method of solving EM problems and simulations.

This latest edition has been expanded to include 4 entirely new chapters on advanced topics in the mainstream of FDTD practice. In addition to advanced techniques it also includes applications and examples, and some 'tricks and traps' of using MATLAB® to achieve them.

This second edition has been comprehensively updated and expanded to provide a must-have reference for someone who is performing FDTD research.

This book is part of the ACES Series on Computational Electromagnetics and Engineering.



Due Spring 2015

Hardback • c.250pp

ISBN: 978-1-61353-016-0

Product code: SBEW5070

£45 • \$75



HIGHER ORDER NUMERICAL SOLUTION TECHNIQUES IN ELECTROMAGNETICS

Roberto D. Graglia and Andrew F. Peterson

Higher Order Numerical Solution Techniques in Electromagnetics takes a different approach to computational electromagnetics and looks at it from the viewpoint of vector fields and vector currents. It gives a more detailed treatment of vector basis function than is currently available in other books. It also describes the approximation of vector quantities by vector basis functions, explores the error in that representation, and considers various other aspects of the vector approximation problem.

This unique guide is the perfect reference guide for those who need to understand and use numerical techniques for electromagnetic fields.



Due Summer 2015

Hardback • c.400pp

ISBN: 978-1-61353-189-1

Product code: SBEW5170

£75 • \$125



SLOTTED WAVEGUIDE ARRAY ANTENNAS

Sembiam R. Rengarajan and Lars Josefsson

This is the first comprehensive treatment of slotted waveguide array antennas from an engineering perspective. It provides readers with a thorough foundation in applicable theories as well as hands-on instruction for practical analysis and design of important types of waveguide slot arrays.

Slotted Waveguide Array Antennas goes beyond some of the commonly discussed topics and ventures into areas that include: higher order mode coupling and edge effects; performance optimization in terms of bandwidth and pattern performance; special slot excitation methods; applications such as monopulse and phase steering; and manufacturing tolerances.

With specific examples of waveguide array designs, accompanied by detailed illustrations and antenna characteristics and many applications, this is a must-have reference for engineers involved in the design and development of slotted waveguide arrays. Additional value is provided by a thorough overview of the related literature in the field and the introductory chapters include the history of these antennas.



Due Summer 2015

Hardback • c.368pp

ISBN: 978-161353-213-3

Product code: SBEW5220

£60 • \$95



LEAKY WAVES IN ELECTROMAGNETICS

Paolo Burghignoli, Alessandro Galli, Paolo Baccarelli, Giampiero Lovat and David Jackson

Leaky waves can explain observed phenomena associated with both antennas and fundamental electromagnetic propagation with minimal numerical calculation. The subject is of current interest as various forms of leaky-wave antennas continue to be developed. Also, the underlying theory is proving useful to explain new phenomena such as giant transmission through arrays of sub-wavelength holes, a discovery that has generated considerable interest in the physics and engineering communities.

Leaky Waves in Electromagnetics is the first book of its kind to provide a unified treatment of the theory and the variety of applications of leaky waves. Topics covered include; the theoretical basis of leaky waves in uniform and periodic structures; and applications in radiation and antennas, scattering, metal and dielectric waveguides, planar structures and complex media.



Due Autumn 2015

Spiral • c.250pp

ISBN: 978-1-61353-197-6

Product code: SBEW5200

£35 • \$60



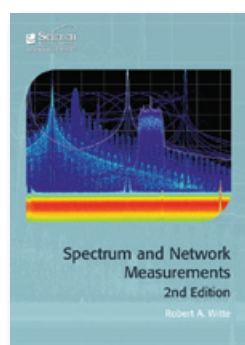
ESSENTIALS OF ELECTROMAGNETIC COMPATIBILITY ENGINEERING

Randy J. Jost and Kenneth Wyatt

Electromagnetic compatibility (EMC) engineering has grown rapidly as a field as systems have become smaller. More compact systems have resulted in increased interference and leakage problems, thus making it almost every design engineer's mission to seek and eliminate EMC-related problems before production commences.

Essentials of Electromagnetic Compatibility Engineering is a comprehensive guide to the key topics and knowledge that every EMC engineer (or engineer that has been assigned the task of overseeing EMC issues) should have at their fingertips. It provides the background to what EMC is, its scope, and why it is important; key design concepts that take into account EMC considerations; what problems are likely to crop up during design and testing; how to mitigate or eliminate those problems; and finally, where to get help if the problem is beyond the experience of the engineer responsible for EMC.

Designed as a quick reference, this book provides engineers with practical data and rules of thumb in one handy place. It is invaluable for practicing EMC engineers, non-specialist circuit design engineers and EE consultants.



Due Winter 2015

Hardback • c.350pp

ISBN: 978-1-61353-014-6

Product code: SBEW5060

£55 • \$85



SPECTRUM AND NETWORK MEASUREMENTS

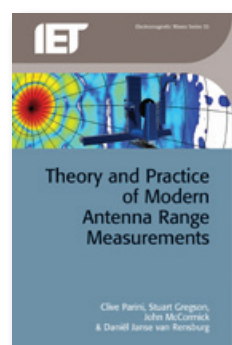
2nd edition

Robert A. Witte

This new edition of *Spectrum and Network Measurements* enables readers to understand the basic theory, relate it to measured results, and apply it when creating new designs.

This comprehensive treatment of frequency domain measurements successfully consolidates all the pertinent theory into one text. It covers the theory and practice of spectrum and network measurements in electronic systems. It also provides thorough coverage of Fourier analysis, transmission lines, intermodulation distortion, signal-to-noise ratio and S-parameters.

NEW



Due Winter 2015

Hardback • 784pp

ISBN: 978-1-84919-560-7

Product code: PBEW0550

£110 • \$175



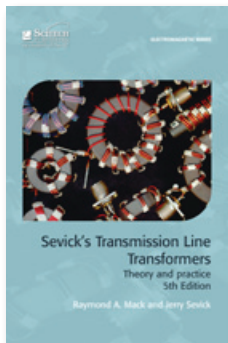
THEORY AND PRACTICE OF MODERN ANTENNA RANGE MEASUREMENTS

Clive Parini, Stuart Gregson, John McCormick, Daniël Janse van Rensburg

This book provides a comprehensive introduction and explanation of both the theory and practice of all forms of modern antenna measurements, from their most basic postulates and assumptions, to the intricate details of their application in various demanding modern measurement scenarios.

Theory And Practice Of Modern Antenna Range Measurements is an essential guide for researchers and advanced students in academia, research laboratories and industry working on antenna measurement and design.

NEW



SEVICK'S TRANSMISSION LINE TRANSFORMERS: THEORY AND PRACTICE

5th edition

Jerry Sevick and Raymond Mack

The long awaited revision of the classic book *Transmission Line Transformers* (2001) by Jerry Sevick has been updated and reorganised by Raymond Mack to provide communication engineers with a clear technical presentation of both the theory and practical applications of the transmission of radio communication.

Featuring expanded coverage, this book provides substantial background theory and includes recent work on fractional ratio transformers and high power Balun designs.

NEW

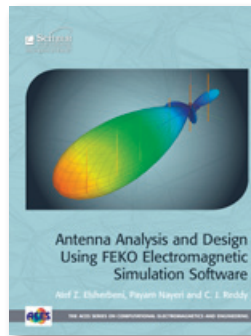
2014

Hardback • 240pp

ISBN: 978-1-89112-197-5

Product code: SBEW5130

£60 • \$99



ANTENNA ANALYSIS AND DESIGN USING FEKO ELECTROMAGNETIC SIMULATION SOFTWARE

Atef Elsherbeni, Payam Nayeri and C. J. Reddy

This book combines theory with practical applications for the analysis and design of a wide variety of antenna configurations simulated on FEKO, the leading real-world commercial software programme. By providing a comprehensive tutorial, this book will be beneficial for both graduate students and practicing engineers in the field of antenna engineering.

NEW

2014

Hardback • 256pp

ISBN: 978-1-61353-205-8

Product code: SBEW5210

£53 • \$89



EMI TROUBLE- SHOOTING COOKBOOK FOR PRODUCT DESIGNERS

Kenneth Wyatt and Patrick G. André

EMI Troubleshooting Cookbook for Product Designers provides the 'recipe' for identifying why products fail to meet EMI/EMC regulatory standards.

It gives examples of simple, easily implemented, and inexpensive troubleshooting tools that can be built by the engineer or technician, and uses methods that require only a basic understanding of electromagnetic theory and a minimal background in EMI/EMC.

NEW

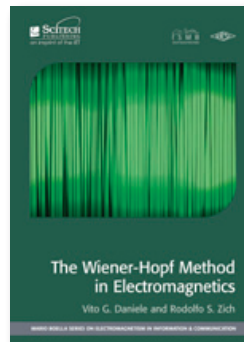
2014

Hardback • 256pp

ISBN: 978-1-61353-019-1

Product code: SBEW5100

£55 • \$85



THE WIENER-HOPF METHOD IN ELECTROMAGNETICS

Vito G. Daniele and Rodolfo S. Zich

This advanced research monograph is devoted to the Wiener-Hopf technique, a function-theoretic method that has found applications in a variety of fields, most notably in analytical studies of diffraction and scattering of waves. It provides a comprehensive treatment of the subject and covers the latest developments, illustrating the wide range of possible applications for this method, and includes an extensive outline of the most powerful analytical tool for the solution of diffraction problems.

NEW

2014

Hardback • 384pp

ISBN: 978-1-61353-001-6

Product code: SBEW5030

£45 • \$75





PRACTICAL COMMUNICATION THEORY

2nd edition

Dave Adamy

The second edition of this practical book enables practising engineers and technicians to quickly and easily generate the answers to real-world problems encountered in specifying, testing, and fielding any type of systems that involve radio propagation.

This updated edition includes new material on radio propagation near the earth in communication bands, which explains how to use the included slide rule scales for each of the appropriate propagation modes.

NEW

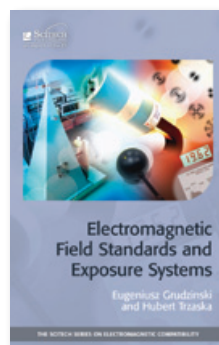
2014

Hardback • 176pp

ISBN: 978-1-61353-186-0

Product code: SBEW5160

£40 • \$65



ELECTRO-MAGNETIC FIELD STANDARDS AND EXPOSURE SYSTEMS

Hubert Trzaska and Eugeniusz Grudziński

This book covers the broader fields of measurements in telecommunications, radionavigation, radio astronomy, bioscience, and free-ranging EM radiation with regards to power density, accurate measurement and interference effects. At the crux of these measurements are the concerns of environmental safety and bioeffects on living organisms. This book aims to correct misconceptions about precision in electromagnetic measurement and to set standards to improve the accuracy of metrology results.

NEW

2014

Hardback • 216pp

ISBN: 978-1-61353-177-8

Product code: SBEW5150

£60 • \$95



See the IET Journals 2015 catalogue for our range of journals in the field of electromagnetic waves.

Other available titles

e	Title	Author(s)/Editor(s)	Format	Pub date	Price (£)	Price (\$)	ISBN	Product Code
✓	EMC Pocket Guide: Key EMC facts, equations and data	Wyatt & Jost	Spiral bound	2013	13	21	978-1-61353-191-4	SBEW5190
✓	Complex Space Source Theory of Spatially Localized Electromagnetic Waves	Seshadri	Hardback	2013	53	89	978-1-61353-193-8	SBEW5180
✓	Electromagnetic Field Standards and Exposure Systems	Trzaska & Grudzinski	Hardback	2013	63	100	978-1-61353-177-8	SBEW5150
✓	Circuit Modeling for Electromagnetic Compatibility	Darney	Hardback	2013	61	100	978-1-61353-020-7	SBEW5020
✓	Scattering of Wedges and Cones with Impedance Boundary Conditions	Lyalinov & Zhu	Hardback	2012	49	85	978-1-61353-003-0	SBEW5010
✓	Integral Equation Methods for Electromagnetics	Volakis & Sertel	Hardback	2012	93	152	978-1-891121-93-7	SBEW0450
✓	Electromagnetic Measurements in the Near Field, 2nd edition	Bienkowski & Trzaska	Hardback	2012	63	101	978-1-891121-06-7	SBEW0420
✓	Propagation of Radiowaves, 3rd edition	L. Barclay (ed.)	Hardback	2012	107	171	978-1-84919-578-2	PBEW0560
✓	Introduction to Adaptive Arrays, 2nd edition	Monzingo et al	Hardback	2011	89	146	978-1-891121-57-9	SBEW0460
✓	Designing Electronic Systems for EMC	Duff	Hardback	2011	67	107	978-1-891121-42-5	SBEW0410
✓	Satellite-to-Ground Radiowave Propagation, 2nd edition	J.E. Allnutt	Hardback	2011	70	119	978-1-84919-150-0	PBEW0540
✓	RF and Microwave Modeling and Measurement Techniques for Field Effect Transistors	Gao	Hardback	2010	77	124	978-1-891121-89-0	SBEW0270
✓	Theory of Edge Diffraction in Electromagnetics	Ufimtsev	Hardback	2009	70	111	978-1-891121-66-1	SBEW0540
✓	Microstrip and Printed Antenna Design, 2nd edition	Bancroft	Hardback	2009	69	112	978-1-891121-73-9	SBEW0480
✓	Antennas: Fundamentals, Design, Measurement, 3rd edition	Blake & Long	Hardback	2009	69	112	978-1-891121-78-4	SBEW0401
✓	2008+ Solved Problems in Electromagnetics	Nasar	Paperback	2007	25	40	978-1-891121-46-3	SBEW0372
✓	Principles of Planar Near-Field Antenna Measurements	S. Gregson, J. McCormick & C. Parini	Paperback	2007	70	119	978-0-86341-736-8	PBEW0530
✓	Thermal Microwave Radiation: Applications for Remote Sensing	C. Matzler (ed.)	Hardback	2006	76	127	978-0-86341-573-9	PBEW0520
✓	Asymptotic and Hybrid Methods in Electromagnetics	F. Molinet, I. Andronov & D. Bouche	Hardback	2005	70	119	978-0-86341-447-3	PBEW0510
✓	Optical Fibers and RF: A natural combination	Romeiser	Hardback	2004	60	96	978-1-884932-34-2	SBEW0220
✓	Propagation of Radiowaves, 2nd edition	L. Barclay (ed.)	Hardback	2003	76	127	978-0-85296-102-5	PBEW5020
✓	Channels, Propagation and Antennas for Mobile Communications	R. Vaughan & J. Bach-Anderson	Hardback	2003	116	193	978-0-85296-084-4	PBEW0500

Textbooks (see pages 34-36)

Title	Author(s)
Other titles	
Principles of Modern Radar: Advanced techniques (see also p27)	W. Melvin & J. Sheer (eds.)
Stimson's Introduction to Airborne Radar, 3rd edition (see p34 & p55)	H. Griffiths, C. Baker & D. Adamy
Microwave and RF Design: A Systems Approach, 2nd edition	M. Steer



Due Summer 2015

Hardback • c.456pp

ISBN: 978-1-84919-895-0

Product code: PBTR0010

£90 • \$145



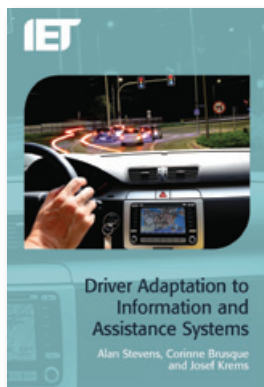
CLEAN MOBILITY AND INTELLIGENT TRANSPORT SYSTEMS

Editors: Michele Fiorini and Jia-Chin Lin

This book provides an important overview of current topics in intelligent transport systems and clean mobility. Edited by two experts in the field, this book covers the full spectrum of transport from land to sea and aircraft, and includes some research from the economic and human sciences.

Clean Mobility and Intelligent Transport Systems covers topics including ICT for intelligent public transport systems; ITS and freight transport; steel and the green cars initiative; cooperative collision warning for vehicles; electronic toll collection systems; multi-sensor maritime surveillance; and aeronautical air-ground communications.

This is essential reading for system architects, practising engineers and students, who are involved in Intelligent Transport Systems (ITS), and clear mobility and smart systems including software design, testing, performance analysis and validation.



2014

Hardback • 382pp

ISBN: 978-1-84919-639-0

Product code: PBSP0090

£79 • \$126



DRIVER ADAPTATION TO INFORMATION AND ASSISTANCE SYSTEMS

Alan Stevens, Corinne Brusque and Joseph Krems

Driver Adaptation to Information and Assistance Systems brings together recent work, by the Marie-Curie co-funded Initial Training Network project ADAPTATION, which has studied drivers' behavioural adaptation to new driver information and assistance technologies.

The book aims to provide the reader with; a better understanding of drivers' adaptation processes, following information and assistance system use at different levels, and research on the effects of the system's performance.

NEW



See the IET Journals 2015 Catalogue for details of the *IET Electrical Systems in Transportation* and *IET Intelligent Transport Systems* journals.

Other available titles

	Title	Author(s)/Editor(s)	Format	Pub date	Price (£)	Price (\$)	ISBN	Product Code
✓	Handbook of Vehicle Suspension Control Systems	Liu, Gao, Li	Hardback	2013	95	151	978-1-84919-633-8	PBCE0920
✓	Further Advances in Unmanned Marine Vehicles	Roberts & Sutton (eds.)	Hardback	2012	104	170	978-1-84919-479-2	PBCE0770
✓	Propulsion Systems for Hybrid Vehicles, 2nd edition	J.M Miller	Paperback	2010	76	127	978-1-84919-147-0	PBRN0070
✓	Advances in Unmanned Marine Vehicles	Roberts & Sutton (eds.)	Hardback	2006	82	138	978-0-86341-450-3	PBCE0690



Due Summer 2015

Hardback • c.304pp

ISBN: 978-1-84919-934-6

Product code: PBCS0280

£105 • \$175



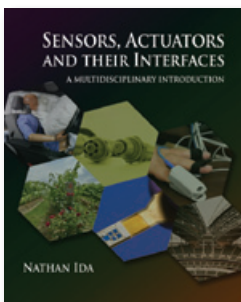
ON-CHIP TEMPERATURE MONITORING AND COOLING TECHNOLOGIES

Seda Ogrenci-Memik

This essential overview covers the subject of thermal monitoring and management in integrated circuits. Specifically, it focuses on devices and materials that are intimately integrated on-chip (as opposed to in-package or on-board) for the purposes of thermal monitoring and thermal management.

It covers devices and circuits used to convert temperature to a digital measurement, heat to electricity, and actively biased circuits that reverse thermal gradients on chips for cooling. The scope includes fundamental operating principles that touch upon the physics of materials that are used to make sensing, harvesting and cooling devices. It then covers the circuit and system design aspects which enable successful functioning of these devices as an on-chip system. Finally, it discusses the use of these devices and systems for thermal management, and the role they play in enabling energy-efficient and sustainable high performance computing systems.

This book is invaluable for researchers in low power, energy-aware computing and in computer architecture. It will also be of interest to graduates and undergraduates in electrical engineering and computer engineering.



2014

Hardback • 784pp

ISBN: 978-1-61353-006-1

Product code: SBCS5020

£75 • \$125



SENSORS, ACTUATORS, AND THEIR INTERFACES: A MULTIDISCIPLINARY INTRODUCTION

Nathan Ida

Sensors, Actuators, and Their Interfaces connects the dots of theory and circuits basics into meaningful systems and real-world applications. It works on the theory that a system is made of three components: Inputs, Outputs and Processors, and looks at sensors and actuators based on the broad area of detection. As a key text it places particular emphasis on interfacing i.e. the processes and mechanisms between the sensor and actuator that make a system work reliably and accurately.

NEW



2014

Hardback • 394pp

ISBN: 978-1-61353-203-4

Product code: SBCS5040

£75 • \$125



TRANSCEIVER AND SYSTEM DESIGN FOR DIGITAL COMMUNICATIONS

4th edition

Scott R. Bullock

This is the fourth edition of this successful professional reference book on transceiver design, the device that both sends and receives signals, and its place within the wireless communication system. It gives engineers, and others, a good intuitive understanding of wireless systems and spread spectrum. New topics covered include cognitive radio, systems, networks, and commercial communications. In addition, many items have been extensively updated to improve the flow of the book and enhance comprehension.

NEW



See the IET Journals 2015 catalogue for details of the *IET Circuits, Devices & Systems* journal.

Other available titles

e	Title	Author(s)/Editor(s)	Format	Pub date	Price (£)	Price (\$)	ISBN	Product Code
✓	Fundamentals of Electromagnetic Levitation: Engineering sustainability through efficiency	A.J. Sangster	Hardback	2012	78	127	978-1-84919-663-5	PBCS0240
✓	Electrical Resistivity Handbook, 2nd edition	G. Dyos	Hardback	2012	111	179	978-1-84919-149-4	PBED0130
✓	Coaxial Electrical Circuits for Interference-Free Measurements	S.A. Awan, B. Kibble & J. Schurr	Paperback	2011	65	109	978-1-84919-069-5	PBEL0130
✓	Understandable Electric Circuits	M. Wang	Paperback	2010	70	119	978-0-86341-952-2	PBCS0230
✓	Analog Circuit Design: Amplifier circuits: 1	Feucht	Paperback	2010	33	56	978-1-891121-86-9	SBCS013Z
✓	Analog Circuit Design: Dynamic circuit response: 2	Feucht	Paperback	2010	35	56	978-1-891121-83-8	SBCS014Z
✓	Analog Circuit Design: High performance amplifiers: 3	Feucht	Paperback	2010	35	56	978-1-891121-84-5	SBCS015Z
✓	Analog Circuit Design: Waveform processing circuits: 4	Feucht	Paperback	2010	35	56	978-1-891121-85-2	SBCS016Z
✓	Nanotechnologies	M. Wautlet et al.	Paperback	2009	60	98	978-0-86341-941-6	PBCS0220
✓	Test and Diagnosis of Analogue, Mixed-Signal and RF Integrated Circuits: the system on-chip approach	Y. Sun (ed.)	Paperback	2008	70	119	978-0-86341-745-0	PBCS0190
✓	Electrical Craft Principles, Volume 1, 5th edition	J. Whitfield	Paperback	2008	28	57	978-0-86341-932-4	PBNS0330
✓	Electrical Craft Principles, Volume 2, 5th edition	J. Whitfield	Paperback	2008	28	57	978-0-86341-933-1	PBNS0340
✓	Technology Computer Aided Design for Si, SiGe and GaAs Integrated Circuits	C.K. Maiti & G.A. Armstrong	Paperback	2007	70	119	978-0-86341-743-6	PBCS0210
✓	Microwave Measurements, 3rd edition	R. Collier & D. Skinner (eds.)	Hardback	2007	98	167	978-0-86341-735-1	PBEL0120
✓	Wideband Amplifier Design	Hollister	Hardback	2007	93	152	978-1-891121-51-7	SBCS0100
✓	The Switching Function: Analysis of power electronic circuits	C. Marouchos	Hardback	2006	65	109	978-0-86341-351-3	PBCS0170
✓	System-on-Chip: Next generation electronics	B. Al-Hashimi (ed.)	Hardback	2006	95	161	978-0-86341-552-4	PBCS0180
✓	Low Power and Low Voltage Circuit Design with the FGMOS Transistor	E. Rodriguez-Villegas	Hardback	2006	87	147	978-0-86341-617-0	PBCS0200
✓	Fabrication of GaAs Devices	A. Baca & C. Ashby	Hardback	2005	87	147	978-0-86341-353-7	PBEP0060
✓	Electron-Gated Ion Channels	Ralston	Hardback	2005	60	96	978-1-891121-41-8	SBCS0530
✓	Foundations of Digital Signal Processing: Theory, algorithms and hardware design	P. Gaydecki	Hardback	2004	65	109	978-0-85296-431-6	PBCS0150
✓	Wireless Communications Circuits and Systems	Y. Sun (ed.)	Hardback	2004	82	138	978-0-85296-443-9	PBCS0160
✓	MEMS Packaging	T. Hsu (ed.)	Hardback	2004	82	138	978-0-86341-335-3	PBEP0030
✓	SIMOX	M. Anc (ed.)	Hardback	2004	76	127	978-0-86341-334-6	PBEP0040
✓	Silicide Technology for Integrated Circuits	L.J. Chen (ed.)	Hardback	2004	82	138	978-0-86341-352-0	PBEP0050
✓	Digital and Analogue Instrumentation: Testing and measurement	N. Kularatna	Hardback	2003	87	147	978-0-85296-999-1	PBEL0110
✓	Modern Filter Design: Active RC and switched capacitor	Ghausi & Laker	Hardback	2003	67	107	978-1-884932-38-0	SBCS0050
✓	Design of High Frequency Integrated Analogue Filters	Y. Sun (ed.)	Hardback	2002	77	130	978-0-85296-976-2	PBCS0140
✓	Silicon Wafer Bonding Technology for VLSI and MEMS Applications	S. Iyer (ed.)	Hardback	2002	70	118	978-0-85296-039-4	PBEP0010
✓	Process Technology for Silicon Carbide Devices	C.M. Zetterling (ed.)	Hardback	2002	85	133	978-0-85296-998-4	PBEP0020

Textbooks (see pages 34-36)

Title	Author(s)
CMOS Digital Integrated Electronics: A first course	C. Hawkins, J. Segura, P. Zarkesh-Ha
Introduction to Biomechatronics	G. Brooker



Due Winter 2015

Hardback • c.480pp

ISBN: 978-1-84919-849-3

Product code: PBP00780

£90 • \$145



NUMERICAL ANALYSIS OF POWER SYSTEM TRANSIENTS AND DYNAMICS

Editor: Akihiro Ametani

The transient analysis of electrical networks has become very important for both HVAC and HVDC systems, due to significant changes introduced through the connection of renewable energy sources.

Numerical Analysis of Power System Transients and Dynamics describes the three major power system transient and dynamics simulation tools based on a circuit-theory based approach which are most widely used all over the world (EMTP-ATP, EMTP-RV and EMTDC/PSCAD), together with another powerful simulation tool called numerical electromagnetic analysis method.

This book is ideal for researchers involved in the analysis of power systems for development and optimisation, and will also be of interest to professionals and Ph. D. students working with power systems.



Due Autumn 2015

Hardback • c.232pp

ISBN: 978-1-84919-932-2

Product code: PBP00820

£90 • \$145



PERIODIC CONTROL OF POWER ELECTRONIC CONVERTERS

Frede Blaabjerg, Keliang Zhou and Danwei Wang

Advanced power electronic converters convert, control and condition electricity. Power converters require control strategies for periodic signal compensation to assure good power quality and stable power system operation.

This comprehensive text presents the most recent internal model principle based periodic control technology, which offers the perfect periodic control solution for power electronic conversion. It also provides complete analysis and synthesis methods for periodic control systems, and plenty of practical examples to demonstrate the validity of proposed periodic control technology for power converters. It proposes a unified framework for housing periodic control schemes for power converters, and provides a general proportional-integral-derivative control solution to periodic signal compensation in extensive engineering applications.

Periodic Control of Power Electronic Converters is intended for engineers, researchers and students in the field of power electronics who are interested in advanced control of power converters and control specialists who like to explore new applications of control theory.



Due Spring 2015

Hardback • c.368pp

ISBN: 978-1-84919-853-0

Product code: PBP00770

£90 • \$145



WIDE AREA MONITORING OF INTERCONNECTED POWER SYSTEMS

Arturo Roman Messina

Wide Area Monitoring of Interconnected Power Systems deals with the development and application of new analytical techniques, based on advanced signal processing methods and multi-scale, multi-temporal analysis tools, and the analysis, monitoring and control of wide-area phenomena in large interconnected power systems. It is the first comprehensive, systematic account of advanced health monitoring and control systems, and near real-time power system analysis and security monitoring. In addition, it includes methods for improved visualisation of system conditions, optimal data fusion, improved forecasting and modelling of system behaviour.

This book is intended for advanced undergraduate and graduate courses in electrical engineering and students on smart grid programs, as well as for researchers, utility engineers, and advanced teaching in the fields of applied control and power engineering. The subject has wide applications in biological and medical (health monitoring) sciences, and engineering (structural health assessment, forecasting and prediction, sensors) and will be of interest to those in the field.



Due Spring 2015

Hardback • c.312pp

ISBN: 978 -1-84919-855-4

Product code: PBP00790

£80 • \$130



VEHICLE-TO-GRID: LINKING ELECTRIC VEHICLES TO THE SMART GRID

Editors: Junwei Lu and Jahangir Hossain

While the complex topic of smart grid is being developed from multiple angles, the concept of smart grid using electric vehicles (EVs) is still fairly new. EVs are providing substantial storage to a city's grid, a key component in mitigating intermittency issues of power sources, but the batteries of EVs also need to be charged at times when their users need them. Thus, V2G (vehicle-to-grid) is becoming an important issue in the future grid. This book offers an integrated treatment of V2G, from power generation, monitoring and storage, in stationary and electric vehicle batteries, to control techniques.

Vehicle-to-Grid: Linking Electric Vehicles to the Smart Grid provides an overview and considers the salient topics of the connection between the stationary grid and EV storage. It will be of interest to researchers and advanced students in electric vehicles and smart grid technologies, and policy-makers and planners developing smart grid infrastructure and sustainable transport initiatives.



Due Autumn 2015

Hardback • c.400pp

ISBN: 978-1-84919-901-8

Product code: PBP00800

£95 • \$150



RELIABILITY OF POWER ELECTRONIC CONVERTER SYSTEMS

Editors: Henry Shu-hung Chung, Frede Blaabjerg and Huai Wang

The main aims of power electronic converter systems (PECs) are to control, convert, and condition electrical power flow, from one form to another, through the use of solid-state electronics. This book outlines R&D into the scientific modelling, experimentation and remedial measures for advancing the reliability, availability, system robustness, and maintainability of PECs at different levels of complexity.

Drawing on the experience of an international team of experts, this book covers an introduction to reliability engineering and the reliability of PECs; lifetime prognosis; and robustness validation. It also covers applications including low- and high-power motor drives, wind turbine systems, photovoltaic systems, uninterruptible power supply systems, energy harvesting, power supplies for computers, high-power converters, and automotive applications.

Reliability of Power Electronic Converter Systems will be of particular interest to professionals in power electronics, and the application sectors, and practising engineers specialising in the development and application to power electronic converters and systems.



Due Autumn 2015

Hardback • c.550pp

ISBN: 978-1-84919-826-4

Product code: PBP00740

£120 • \$190



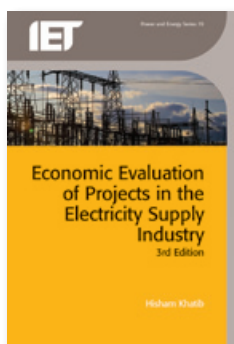
POWER ELECTRONIC CONVERTERS AND SYSTEMS: FRONTIERS AND APPLICATIONS

Editor: Andrzej M. Trzynadlowski

Power electronic systems are indispensable in adjustable speed drives, national smart power grid, electric and hybrid cars, electric locomotives and subway trains, renewable energy sources and distributed generation. As a result, the interest in power electronics is expanding along with the need for a source of state-of-the-art knowledge.

With chapters written by specialists in their field, this important book is a comprehensive compendium of topics related to recent advances in power electronic devices, converters and systems.

It will be essential reading for practising engineers specialising in the development and application of power electronic converters and systems. It will also be of value to graduate students specialising in power electronics, renewable energy and power systems, and for postdocs involved in related research projects.



2014

Hardback • 304pp

ISBN: 978-1-84919-747-2

Product code: PBP00700

£85 • \$140



ECONOMIC EVALUATION OF PROJECTS IN THE ELECTRICITY SUPPLY INDUSTRY

NEW

3rd edition

Hisham Khatib

This updated and expanded edition of *Economic Evaluation of Projects in the Electricity Supply Industry* takes a broad introductory approach, covering market and environmental issues, financial analysis and evaluation, clean environmental technologies and costs.

This edition will be invaluable to engineers, economists and financial analysts tasked with evaluating the economics of power projects and their environmental implication, in order to comprehend and analyse investment proposals and decisions.



2014

Hardback • 928pp

ISBN: 978-1-84919-691-8

Product code: PBP00690

£120 • \$198



THE LIGHTNING FLASH

NEW

2nd edition

Editor: Vernon Cooray

With contributions from today's leading lightning engineers and researchers, this updated 2nd edition of Vernon Cooray's classic text, *The Lightning Flash* provides the reader with an essential introduction to lightning and its impact on electrical and electronic equipment.

This 2nd edition is an updated and much expanded core title in the trio of lightning books by the highly regarded author, Vernon Cooray. Other titles in this range are; *Lightning Electromagnetics* (2012) and *Lightning Protection* (2010), which are both listed on p23.



2014

Hardback • 320pp

ISBN: 978-1-84919-493-8

Product code: PBRN0140

£75 • \$120



WIND POWER INTEGRATION: CONNECTION AND SYSTEM OPERATIONAL ASPECTS

NEW

2nd edition

Brendan Fox, Damian Flynn and Leslie Bryans

Wind Power Integration: Connection and system operational aspects, 2nd edition has been fully revised and updated to take account of the significant growth in wind power deployment in the past few years to provide a wide-ranging discussion on all major aspects of wind power integration into electricity supply systems.

New discussions added include; the developments in wind turbine generator technology and control, the network integration of wind power, and an update on how the wind energy sector has fared in the marketplace.



See the IET Journals 2015 catalogue for our range of journals in the fields of Power Electronics and Power Generation.

Other available titles

e	Title	Author(s)/Editor(s)	Format	Pub date	Price (£)	Price (\$)	ISBN	Product Code
✓	High Voltage Engineering and Testing, 3rd edition	Ryan	Hardback	2013	126	205	978-1-84919-263-7	PBP00660
✓	Multicore Simulation of Power System Transients	F.M. Uriarte (ed.)	Hardback	2013	79	126	978-1-84919-572-0	PBP00670
✓	Distribution System Analysis and Automation	Gers	Hardback	2013	68	109	978-1-84919-659-8	PBP00680
✓	Modelling Distributed Energy Resources in Energy Service Networks	Acha	Hardback	2013	79	126	978-1-84919-559-1	PBRN0160
✓	Electrical Design for Ocean Wave and Tidal Energy Systems	Alcorn & O'Sullivan	Hardback	2013	95	151	978-1-84919-561-4	PBRN0170
✓	Lightning Electromagnetics	V. Cooray	Hardback	2012	132	217	978-1-84919-215-6	PBP00620
✓	Offshore Wind Turbines: Reliability, availability and maintenance	P. Tavner	Hardback	2012	78	127	978-1-84919-229-3	PBRN0130
✓	Ultracapacitor Applications	J.M. Miller & P. Mitchell	Paperback	2011	70	119	978-1-84919-071-8	PBP00590
✓	Energy Storage for Power Systems, 2nd edition	A. Ter-Gazarian	Paperback	2011	92	156	978-1-84919-219-4	PBP00630
✓	Protection of Electricity Distribution Networks, 3rd edition	Gers	Paperback	2011	70	119	978-1-84919-223-1	PBP00650
✓	Scenarios for a Future Electricity Supply: Cost-optimized variations on supplying Europe and its neighbours with electricity from renewable energies	G. Czigisch	Hardback	2011	104	156	978-1-84919-156-2	PBRN0100
✓	Lightning Protection	V. Cooray (ed.)	Paperback	2010	98	167	978-0-86341-744-3	PBP00580
✓	Distributed Generation	N. Jenkins, G. Strbac & J. Ekanayake	Paperback	2010	70	119	978-0-86341-958-4	PBRN0010
✓	Propulsion Systems for Hybrid Vehicles, 2nd edition	J.M. Miller	Paperback	2010	76	127	978-1-84919-147-0	PBRN0070
✓	Energy: Resources, technologies and the environment	C. Ngo	Paperback	2010	24	40	978-1-84919-152-4	PBRN0080
✓	Solar Photovoltaic Energy	A. Labouret & M. Viloz	Paperback	2010	65	109	978-1-84919-154-8	PBRN0090
✓	Cogeneration: A user's guide	D. Flin	Paperback	2010	29	49	978-0-86341-738-2	PBRN0110
✓	Control Techniques Drives and Controls Handbook, 2nd edition	W. Drury (ed.)	Hardback	2009	92	156	978-1-84919-013-8	PBP00570
✓	Microgrids and Active Distribution Networks	S.Chowdhury, S.P.Chowdhury & P.Crossley	Paperback	2009	51	88	978-1-84919-014-5	PBRN0060
✓	Condition Assessment of High Voltage Insulation in Power System Equipment	R. James & Q. Su	Paperback	2008	36	59	978-0-86341-737-5	PBP00530
✓	Local Energy: Distributed generation of heat and power	J. Wood	Paperback	2008	36	59	978-0-86341-739-9	PBP0055E
✓	Condition Monitoring of Rotating Electrical Machines	P. Tavner, L. Ran, J. Penman & H. Sedding	Paperback	2008	70	113	978-0-86341-741-2	PBP00560
✓	Wind Power Integration: Connection and system operational aspects	B. Fox et al.	Hardback	2007	82	138	978-0-86341-449-7	PBP00500
✓	Nuclear Power	J. Wood	Paperback	2007	35	59	978-0-86341-668-2	PBP00520
✓	Wood Pole Overhead Lines	B. Wareing	Hardback	2005	70	119	978-0-86341-356-8	PBP00480
✓	Short Circuit Currents	J. Schlabbach	Hardback	2005	87	147	978-0-86341-514-2	PBP00510
✓	Advances in High Voltage Engineering	M. Haddad & D.Warne (eds.)	Paperback	2004	65	109	978-1-84919-038-1	PBP0040Z
✓	Distribution Switchgear	S. Stewart	Hardback	2004	76	127	978-0-85296-107-0	PBP00460
✓	Electric Fuses, 3rd edition	A. Wright & G.Newbery	Paperback	2004	36	59	978-0-86341-399-5	PBP0049Z
✓	Power Systems Electromagnetic Transients Simulation	J. Arrillaga & N. Watson	Hardback	2003	95	161	978-0-85296-106-3	PBP00390
✓	Electrical Operation of Electrostatic Precipitators	K. Parker	Hardback	2003	82	138	978-0-85296-137-7	PBP00410
✓	Thermal Power Plant Simulation and Control	D. Flynn (ed.)	Hardback	2003	87	146	978-0-85296-419-4	PBP00430
✓	Electrical Steels for Rotating Machines	P. Beckley	Hardback	2002	87	147	978-0-85296-980-9	PBP00370



Due Spring 2015

Hardback • c.384pp

ISBN: 978-1-61353-199-0

Product code: SBRA5090

£85 • \$140



MODERN RADAR DETECTION THEORY

Editors: Antonio De Maio and Maria Sabrina Greco

Modern radar detection is the new frontier for advanced radar systems capable of operating in challenging scenarios with a plurality of interference sources, both man-made and natural. Written by top researchers and recognised leaders in the field, this is the first book to provide a comprehensive understanding of the current research trends in modern radar detection.

It updates readers with the latest radar signal processing algorithms now capable with high-speed computer chips and sophisticated programs. It also includes examples and applications from real systems.

This is essential reading for radar systems design engineers within aerospace companies, military radar engineers, and aerospace contractors/consultants.



Due Summer 2015

Hardback • c.620pp

ISBN: 978-161353-217-1

Product code: SBRA5110

£85 • \$140



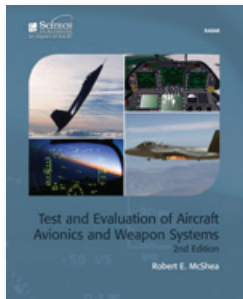
DIGITAL TECHNIQUES FOR WIDEBAND RECEIVERS

3rd edition

James Tsui and Chi-Hao Cheng

Digital Techniques for Wideband Receivers is widely recognised as the definitive design guide on digital processing work with today's complex receiver systems. This third edition brings readers up-to-date with the latest information on wideband electronic warfare receivers, and includes new chapters on the detection of FM and BPSK radar signals, analog-to-information, time-reversal filter, monobit receivers with improved instantaneous dynamic range and it offers insights on building electronic warfare receivers. From fundamental concepts and procedures, to recent technology advances in digital receivers, readers get practical solutions to important wideband receiver problems.

This book has been updated with many of the latest concepts to help users design receivers that are relevant for today's electronic warfare systems. It will be an ideal reference for defense digital signal processing engineers, in government and industry.



TEST AND EVALUATION OF AIRCRAFT AVIONICS AND WEAPONS SYSTEMS

2nd edition

Robert E. McShea

This new updated edition is a unique training book which serves as both a text and practical reference for all personnel involved in avionics and weapons system evaluation and testing, in the air and on the ground. With the addition of three new chapters and new chapter exercises, this book provides readers with the fundamentals and practical information needed to get the job done.

NEW

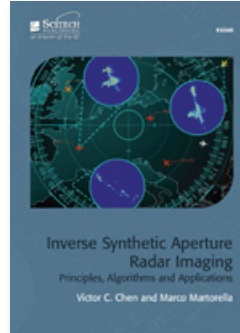
Due Winter 2015

Hardback • 1040pp

ISBN: 978-1-61353-176-1

Product code: SBRA5070

£110 • \$175



INVERSE SYNTHETIC APERTURE RADAR IMAGING: PRINCIPLES, ALGORITHMS, AND APPLICATIONS

Victor C. Chen and Marco Martorella

This book is based on the latest research on ISAR imaging of moving targets and non-cooperative target recognition (NCTR). With a focus on the advances and applications, it provides readers with a working knowledge of various algorithms of ISAR imaging of targets and implementation with MATLAB.

NEW

2014

Hardback • 304pp

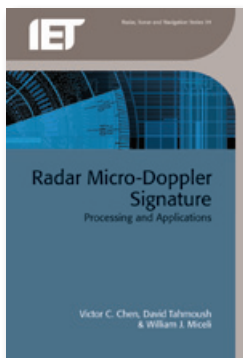
ISBN: 978-1-61353-013-9

Product code: SBRA5040

£80 • \$125



Inverse Synthetic Aperture Radar Imaging: Principles, Algorithms and Applications is essential reading for academics, advanced radar engineers and industry professionals.



RADAR MICRO-DOPPLER SIGNATURE: PROCESSING AND APPLICATIONS

Victor C. Chen, David Tahmouash and William J. Miceli

There is a growing interest in how to use radar micro-Doppler signatures in real world applications. This book concentrates on the processing and application of radar micro-Doppler signatures in real world situations, providing readers with a good working knowledge on a variety of applications of radar micro-Doppler signatures.

NEW

2014

Hardback • 408pp

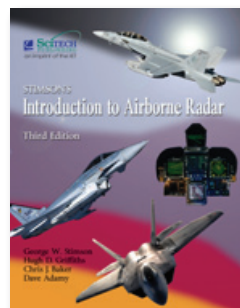
ISBN: 978-1-84919-716-8

Product code: PBRA0340

£90 • \$145



Topics covered include; bistatic/multistatic micro-Doppler signatures, decomposition of micro-Doppler signatures, through-wall radar micro-Doppler signatures and ultrasound micro-Doppler signature studies.



STIMSON'S INTRODUCTION TO AIRBORNE RADAR

3rd edition

Hugh Griffiths, Christopher Baker and Dave Adamy

This updated 3rd edition is widely acknowledged as the only book to offer a complete overview of modern airborne radar principles of the last 15-20 years. Greatly expanded from the best-selling second edition by George W. Stimson, this book offers a complete overview of the major developments in air and space-borne radar in line with advances in modern technology.

NEW

2014

Hardback • 774pp

ISBN: 978-1-61353-022-1

Product code: SBRA5050

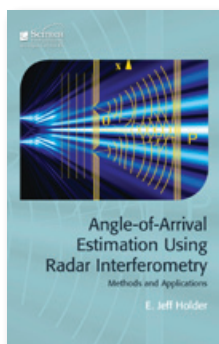
£110 • \$175



Digital copy available only at: www.knovel.com

Key features include six new chapters on electronic warfare, seven chapters on special topics and advanced techniques, and real-life practical examples.

See also p. 55



2014

Hardback • 360pp

ISBN: 978-1-61353-184-6

Product code: SBRA5080

£84 • \$131



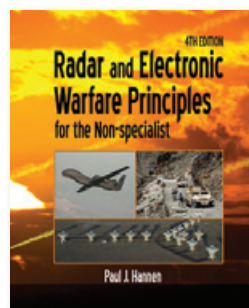
ANGLE-OF-ARRIVAL ESTIMATION USING RADAR INTERFEROMETRY

NEW

E. Jeff Holder

Anybody who watches golf tournaments on TV will have seen the colourful visual of a ball's flight path. This is accomplished with radar interferometry. This book derives the fundamental relationships that quantify the angle-of-arrival performance of a radar interferometer and helps readers to develop an intuitive understanding of radar angle-of-arrival measurement theory.

This book is tightly focused and is essential reading for the radar community and the military-industrial sector that develop radars for various uses related to target tracking.



2014

Paperback • 424pp

ISBN: 978-1-61353-011-5

Product code: SBRA5020

£53 • \$83



RADAR AND ELECTRONIC WARFARE PRINCIPLES FOR THE NON-SPECIALIST

NEW

4th edition

Paul Hannen

Radar and Electronic Warfare Principles for the Non-Specialist, covers the essentials of radar and electronic warfare in a clear, consistent way. It distils the very complex, rich technologies of radar and EW into its fundamentals, tying them to the laws of nature, on one end, and to the most modern and complex systems on the other.

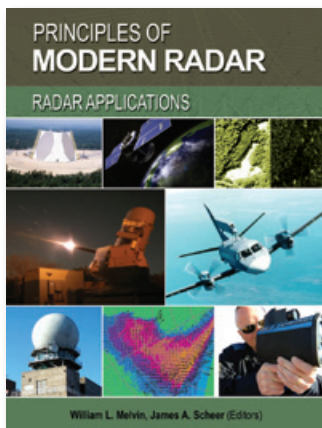
This book is written specifically for those with little or no knowledge of radar and EW technologies to enable them to critique a first-order radar or EW system design or analysis.



See the IET Journals 2015 catalogue for details of the IET Radar, Sonar & Navigation journal.

Textbooks (see pages 34-36)

Title	Author(s)
Other titles	
Radar and Electronic Warfare Principles for the Non-Specialist, 4th edition	P. Hannen
Stimson's Introduction to Airborne Radar, 3rd edition (see p34 & p55)	H. Griffiths, C. Baker & D. Adamy



PRINCIPLES OF MODERN RADAR: RADAR APPLICATIONS

Volume 3

Editors: William L. Melvin and James A. Scheer

The third volume in the *Principles of Modern Radar* series presents specific real-world applications of radar systems, drawing upon previous editions by combining underlying basic principles with advanced radar techniques.

This third volume provides in-depth discussions of the most important application areas in current radar practice. It includes concise descriptions of the purposes, principal issues and radar methods found in a wide variety of current radar types. The different types of radar considered include low-power continuous wave (CW) radar, weather radar and military applications. Each chapter is authored by experts in the field who are active in research and teaching radar practitioners in professional courses.

This edition will serve as a self-contained reference for those aiming to become experts in an advanced technology or application area. It is primarily aimed at radar practitioners within military or government and will also be useful for some advanced graduate students.

NEW

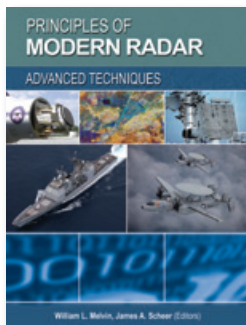
2014

Hardback • 816pp

ISBN: 978-1-89112-154-8

Product code: SBRA5030

£100 • \$156



PRINCIPLES OF MODERN RADAR: ADVANCED TECHNIQUES

Volume 2

Editors: William L. Melvin and James A. Scheer

The second volume in the *Principles of Modern Radar* series provides a professional reference with in-depth discussions of the most commonly used advanced techniques for radar design. Topics covered include: exotic waveforms; ultra-high-resolution 2D and 3D imaging methods; complex adaptive interference cancellation; and multi-target tracking in dense scenarios.

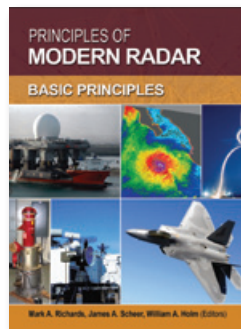
2013

Hardback • 872pp

ISBN: 978-1-89112-153-1

Product code: SBRA0200

£99 • \$163



PRINCIPLES OF MODERN RADAR: BASIC PRINCIPLES

Volume 1

Editors: Mark A. Richards, James A. Scheer and William A. Holm

The first volume of this popular series is a comprehensive textbook for courses in radar systems and technology. It can also be used as a professional training textbook for formal in-house courses; a reference for ongoing study; and a self-study and professional reference book.

Principles of Modern Radar differs from similar texts in its breadth of coverage, its emphasis on current methods (without losing sight of bedrock principles), and its adoption of an appropriate level of quantitative rigor.

2010

Hardback • 960pp

ISBN: 978-1-89112-152-4

Product Code: SBRA0210

£91 • \$145



ALSO AVAILABLE ...

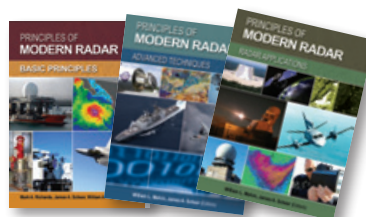
PRINCIPLES OF MODERN RADAR

3-Volume set (Hardback)

ISBN: 978-1-61353-201-0

Product code: SBRA5100

£240 • \$370



Other available titles

e	Title	Author(s)/Editor(s)	Format	Pub date	Price (£)	Price (\$)	ISBN	Product Code
✓	Sea Clutter: Scattering, the K-distribution and radar performance, 2nd edition	Ward, Tough & Watts	Hardback	2013	89	143	978-1-84919-589-8	PBRA0250
✓	Radar Techniques Using Array Antennas, 2nd edition	Wirth	Hardback	2013	95	156	978-1-84919-698-7	PBRA0260
✓	Radar Automatic target recognition (ATR) and Non-cooperative Target Recognition (NCTR)	Blacknell & Griffiths	Hardback	2013	95	156	978-1-84919-685-7	PBRA0330
✓	Waveform Design and Diversity for Advanced Radar Systems	F. Gini, A. De Maio, L.K. Patton	Hardback	2012	91	156	978-1-84919-265-1	PBRA0220
✓	Tracking Filter Engineering	N. Morrison	Hardback	2012	102	171	978-1-84919-554-6	PBRA0230
✓	Pulse Doppler Radar	Alabaster	Hardback	2012	91	152	978-1-891121-98-2	SBRA0240
✓	Radar Essentials: A concise handbook for radar design and performance	Curry	Spiral bound	2012	27	45	978-1-61353-007-8	SBRA0290
✓	Electronic Warfare Pocket Guide	Adamy	Spiral bound	2011	14	20	978-1-891121-61-6	SBRA0060
✓	Foliage Penetration Radar: Detection & characterisation of objects under trees	Davis	Hardback	2011	81	130	978-1-891121-00-5	SBRA0070
✓	Principles of Waveform Diversity and Design	Wicks et al	Hardback	2011	132	213	978-1-891121-95-1	SBRA0230
✓	Pocket Radar Guide: Key facts, equations, and data	Curry	Spiral bound	2010	12	18	978-1-891121-08-1	SBRA0190
✓	Test and Evaluation of Aircraft Avionics and Weapons Systems	McShea	Hardback	2010	105	168	978-1-891121-90-6	SBRA0330
✓	Fundamentals of Ground Radar for ATC Engineers and Technicians	Bouwman	Hardback	2009	91	146	978-1-891121-75-3	SBRA0080
✓	Introduction to Sensors for Ranging and Imaging	Brooker	Hardback	2009	84	134	978-1-891121-74-6	SBRA0140
✓	Phased-Array Radar Design: Application of radar fundamentals	Jeffrey	Hardback	2009	63	101	978-1-891121-69-2	SBRA0180
✓	Advances in Bistatic Radar	Willis & Griffiths	Hardback	2007	105	168	978-1-891121-48-7	SBRA0010
✓	Design of Multi-Frequency CW Radars	Jankiraman	Hardback	2007	91	146	978-1-891121-56-2	SBRA0040
✓	Sea Clutter: Scattering, the K-distribution and radar performance	Ward, Tough & Watts	Hardback	2006	85	147	978-0-86341-503-6	PBRA0200
✓	Principles of Space-Time Adaptive Processing, 3rd edition	R. Klemm	Hardback	2006	92	156	978-0-86341-566-1	PBRA0210
✓	Introduction to Electronic Warfare Modeling and Simulation	Adamy	Paperback	2006	64	102	978-1-89112-162-3	SBRA011Z
✓	Introduction to Radar Target Recognition	P. Tait	Hardback	2005	82	133	978-0-86341-501-2	PBRA0180
✓	Radar Imaging and Holography	A. Pasmurov & S. Zinovjev	Hardback	2005	82	138	978-0-86341-502-9	PBRA0190
✓	Microwave Receivers with Electronic Warfare Applications	Tsui	Paperback	2005	77	123	978-1-891121-40-1	SBRA017Z
	Introduction to RF Stealth	Lynch	Hardback	2004	109	179	978-0-863413-49-0	PBRA0130
✓	Applications of Space-Time Adaptive Processing	R. Klemm (ed.)	Hardback	2004	110	147	978-0-85296-924-3	PBRA0140
✓	Ground Penetrating Radar, 2nd edition	D. Daniels (ed.)	Hardback	2004	87	138	978-0-86341-360-5	PBRA0150
✓	Target Detection by Marine Radar	J. Briggs	Hardback	2004	87	147	978-0-86341-359-9	PBRA0160
✓	Strapdown Inertial Navigation Technology, 2nd edition	D. Titterton & J. Weston	Hardback	2004	95	161	978-0-86341-358-2	PBRA0170
✓	Airborne Early Warning System Concepts, 3rd edition	Long	Paperback	2004	82	130	978-1-891121-32-6	SBRA002Z
✓	Bistatic Radar, 2nd edition	Willis	Paperback	2004	63	101	978-1-891121-45-6	SBRA003Z
✓	Digital Techniques for Wideband Receivers	Tsui	Hardback	2004	77	123	978-1-891121-26-5	SBRA0050
	Radar Cross Section, 2nd edition	Knott et al	Paperback	2004	74	118	978-1-891121-25-8	SBRA026Z
✓	Radar Detection	DiFranco & Ruby	Paperback	2004	81	130	978-1-891121-36-4	SBRA028Z
✓	Radar Foundations for Imaging and Advanced Concepts	Sullivan	Paperback	2004	75	119	978-1-891121-22-7	SBRA030Z
✓	Radar Principles for the Non-Specialist, 3rd edition	Toomay & Hannan	Hardback	2004	41	67	978-1-891121-34-0	SBRA0320



AGE FACTORS IN BIOMETRIC PROCESSING

Editor: Michael C. Fairhurst

Age Factors in Biometric Processing explores the implications of ageing on biometric technologies, and how such factors can be managed in practical situations. It includes age factors as barriers/opportunities in relation to performance; modality-related approaches to management of age factors; implications for practical application; and future trends and research challenges.

This is an outstanding overview of the topic for the rapidly expanding community of stakeholders in biometrics-based identification solutions in academia, industry and government.

2013

Hardback • 376pp

ISBN: 978-1-84919-502-7

Product code: PBSP0100

£100 • \$143



IET Journals
The Institution of
Engineering and Technology

Access world-class research in the journal, *IET Biometrics*

The field of biometrics – automated identification of an individual, or verification of claimed identity, based on that individual's biological or behavioural characteristics – has now reached a level of maturity where very successful practical applications are both possible and increasingly available.

Yet despite this, many research questions remain, and it is clear that there is much which can still be achieved in terms of improving performance, facilitating the adoption of biometric technologies in new application domains, improving the interaction between users and systems, and in many other areas.

IET Biometrics provides a forum where leading edge developments in the field are reported and new and emerging ideas disseminated across the international research community.

Find out more

www.ietdl.org/IET-BMT



Due Autumn 2015

Hardback • c.450pp

ISBN: 978-1-84919-750-2

Product code: PBTE0610

£80 • \$130



HOW TO DESIGN WIRELESS SYSTEMS

Lee Vishloff

Many technology areas require new wireless designs in order to meet their objectives. This book teaches people how to design wireless systems starting from a blank sheet. It describes each of the major technical areas that a wireless system designer must address (including propagation, link budgets, modulation and equipment limitations) and how to make them. The mathematical treatments are at a level suitable for practising engineers looking to make sound engineering decisions and examples include autonomous vehicles, position systems and sensor networks. In addition, the wireless systems addressed are particularly relevant to the current expansion of wireless technology.

The author has extensive industrial experience and practical knowledge which makes this book more accessible than others in its field. It will be invaluable to senior design students taking courses in electrical engineering. It will also be of interest to practising engineers in industry designing new equipment, semiconductors or systems, and those developing wireless standards.



Due Summer 2015

Hardback • c.288pp

ISBN: 978-1-84919-820-2

Product code: PBTE0640

£60 • \$95



VOICE OVER LTE (VoLTE): CONVERGENCE OF LTE AND IMS

K. Daniel Wong and Vijay K. Varma

LTE (Long Term Evolution) is being widely deployed across the globe. It is the technology that allows smart phones to operate effectively however, in the vast majority of cases, it supports data only. The next big expansion is expected to come from Voice over LTE (VoLTE). This book sets up the background technology to understand VoLTE, including the EPS architecture and innovations that are particularly important to VoLTE. It covers IMS architecture and procedures that provide the foundations of VoLTE, voice technologies, and will appeal to many engineering and technical readers. In addition it covers the migration and transition issues that are the crux of problems for practising engineers, and touches on related topics including alternatives to VoLTE and technologies like RCS.

This is essential reading for professional wireless engineers and software developers engaged in deployment of VoLTE and others involved with wireless technologies.



Due Summer 2015

Hardback • c.784pp

ISBN: 978-1-84919-802-8

Product code: PBTE0630

£99 • \$165



CHANNELS, PROPAGATION AND ANTENNAS FOR MOBILE COMMUNICATIONS

2nd edition

Rodney G. Vaughan and Jorgen Bach Andersen

The first edition of this book was produced at a time when mobile communications and MIMO principles were established but changing very quickly. Since then significant progress has been made in several topics. In particular, there has been an increasing awareness of the communications potential offered by multiport antenna design; how to deploy them within a communications system; and the need for a better understanding of multiport antenna design and modelling multipath propagation. The soaring demand for wireless services has continued and techniques for increasing capacity is being continually refined.

The second edition of this successful book continues to be the only one to cover the theory and basis of channels, antennas and propagation in this growing field. Topics covered include basic multipath mechanisms and propagation, and propagation modelling as well as short term channel behaviour from two-path and many-path models and scenarios.

This book will help electrical engineering graduates in their research and researchers with appreciation of the physical layer. It will also be of use to designers of communications systems and multi-antenna systems.



Due Summer 2015

Hardback • 256pp

ISBN: 978-1-84919-745-8

Product code: PBTE0600

£45 • \$75



UNDERSTANDING TELECOMMUNICATIONS BUSINESS

Andy Valdar and Ian Morfett

This companion volume to the book *Understanding Telecommunications Networks* (p.33) will be of interest to undergraduate and graduate students studying engineering, computing and telecommunications, and practitioners in industry.

Topics covered include: introduction to the telecommunications business; regulation; business strategy; corporate finance and governance; network strategy and planning; customers and marketing; product management; network economics; network and service operations and company dynamics.



Due Autumn 2015

Hardback • c.288pp

ISBN: 978-1-84919-790-8

Product code: PBTE0620

£85 • \$140



RESILIENCE IN WIRELESS NETWORKS

Prashant Krishnamurthy

Resilience in Wireless Networks is the first book to cover this topic at an advanced level. It provides a unified view of the latest research and illustrates the issues, challenges and solutions currently under discussion. The book divides wireless networks into infrastructure and *ad hoc* topologies and considers the resilience of each separately.

This is an academic monograph with some mathematical analysis and numerical examples, with an emphasis on concepts and generalisation rather than specific software tools or implementation aspects. It also contains practical examples of real-life attacks and diagnostic tools to improve future resilience of networks.

Resilience in Wireless Networks is an essential reference for researchers and professionals in IT security and resilience.



Due Summer 2015

Hardback • c.424pp

ISBN: 978-161353-211-9

Product code: SBTE5020

£75 • \$120



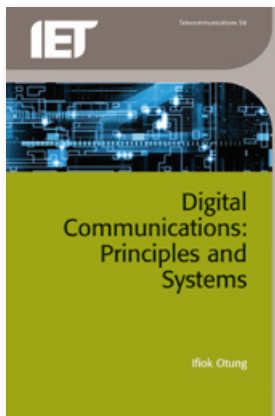
COGNITIVE RADIO ENGINEERING

Charles W. Bostian, Nicholas J. Kaminski, Alexander Young and Almohanad Fayed

A cognitive radio is a transceiver that is aware of its environment, the regulations governing its operation, and its users' needs, priorities, and operational privileges. It can take intelligent action to configure itself to perform its mission based on that awareness and is capable of learning and reasoning from past experience.

Cognitive Radio Engineering is both a text and a reference book about cognitive radio architecture and implementation. It is intended for readers who want to design and build working cognitive radios. It provides a practical approach that differs from many existing titles that postulate and analyse or simulate ideal cognitive radios without considering how to build working prototypes. This book will take the reader from conceptual block diagrams through the design and evaluation of illustrative prototypes.

Written by acknowledged experts in the field who have built working cognitive radio systems, this book will be essential reading for communications engineers working in academia or industry.



DIGITAL COMMUNICATIONS: PRINCIPLES AND SYSTEMS

NEW

Ifiok Otung

This book provides postgraduate students and practising engineers with a thorough grounding in the core principles and design issues of digital communications to meet the industry demand for in-depth expertise in digital transmission techniques.

Engineering concepts and underlying physical considerations are described as well as a clear appreciation of the parameters involved, offering a good feel for the interplay of these parameters. Extensive coaching in the solutions to practical problems are also drawn from various application areas.

2014

Hardback • 520pp

ISBN: 978-1-84919-611-6

Product code: PBTE0580

£65 • \$104



Other available titles

e	Title	Author(s)/Editor(s)	Format	Pub date	Price (£)	Price (\$)	ISBN	Product Code
✓	Dynamic Ad Hoc Networks	Rashvand & Chao	Hardback	2013	89	143	978-1-84919-647-5	PBTE0590
✓	Key Enablers for User-Centric Advertising Across Next Generation Networks	J. Simoes	Hardback	2012	72	119	978-1-84919-618-5	PBTE0560
✓	Wireless Receiver Design for Digital Communications, 2nd edition	McClaning	Hardback	2012	98	156	978-1-891121-80-7	SBTE0090
✓	Standard Codecs: Image compression to advanced video coding, 3rd edition	M. Ghanbari	Hardback	2011	70	119	978-0-86341-964-5	PBTE0540
✓	Transceiver and System Design for Digital Communications, 3rd edition	Bullock	Hardback	2009	77	123	978-1-891121-72-2	SBTE0080
✓	Video Compression Systems: From first principles to concatenated codecs	A. Bock	Paperback	2009	46	79	978-0-86341-963-8	PBTE0530
✓	Introduction to Broadband Communication Systems	Akujuobi & Sadiku	Hardback	2008	75	119	978-1-42006-149-9	SBTE5010
✓	Understanding Telecommunications Networks	A. Valdar	Paperback	2006	41	70	978-0-86341-362-9	PBTE0520
✓	Local Access Network Technologies	P. France (ed.)	Hardback	2004	82	138	978-0-85296-176-6	PBTE0470
✓	Location and Personalisation: Delivering online and mobility services	D. Ralph & S. Searby (eds.)	Hardback	2004	72	122	978-0-86341-338-4	PBBT0080
✓	Mobile and Wireless Communications: Key technologies and future applications	P. Smyth (ed.)	Hardback	2004	76	127	978-0-86341-368-1	PBBT0090
✓	Security for Mobility	C. Mitchell (ed.)	Hardback	2004	87	147	978-0-86341-337-7	PBTE0510
✓	Telecommunications Performance Engineering	R. Ackerley (ed.)	Hardback	2004	76	128	978-0-86341-341-4	PBBT0070
✓	Broadband Applications and the Digital Home	J. Turnbull & S. Garrett (eds.)	Hardback	2003	82	138	978-0-85296-428-6	PBBT0050
✓	Standard Codecs: Image compression to advanced video coding, 2nd edition	M. Ghanbari	Hardback	2003	62	124	978-0-85296-710-2	PBTE0490
✓	Telecommunications Network Modelling, Planning and Design	S. Evans (ed.)	Hardback	2003	65	107	978-0-86341-323-0	PBBT0060
✓	Telecommunications Quality of Service Management	A.P. Oodan (ed.)	Hardback	2003	92	156	978-0-85296-424-8	PBTE0480
✓	Telecommunications Regulation	J. Buckley	Hardback	2003	70	119	978-0-85296-444-6	PBTE0500
✓	Intelligent Networks: Principles and applications	J.R. Anderson	Hardback	2002	72	122	978-0-85296-977-9	PBTE0460
✓	Internet and Wireless Security	R. Temple & J. Regnault (eds.)	Hardback	2002	82	138	978-0-85296-197-1	PBBT0040

For levels from university undergraduates to engineering and military professionals, the IET publishes a range of accessible textbooks covering topics including bioengineering, electronics, electromagnetics, microwave & RF, programming, electrical engineering and radar.

Available in print worldwide, digital editions are available from either the IET Digital Library or CourseSmart.

ADVANCED ELECTROMAGNETICS



THE FINITE-DIFFERENCE TIME-DOMAIN FOR ELECTROMAGNETICS: WITH MATLAB® SIMULATIONS

2nd edition

Atef Elsherbeni and Veysel Demir

This is one of the best books on computational electromagnetics for graduate students and practising engineering professionals in industry and government. It is designed as an advanced textbook and self-study guide to the FDTD method of solving EM problems and simulations.

This latest edition has been expanded to include 4 entirely new chapters on advanced topics in the mainstream of FDTD practice. In addition to advanced techniques it also includes applications and examples, and some 'tricks and traps' of using MATLAB® to achieve them.

This second edition has been comprehensively updated and expanded to provide a must-have reference for someone who is performing FDTD research.

This book is part of the ACES Series on Computational Electromagnetics and Engineering.

Due Winter 2015

Hardback • c.575pp

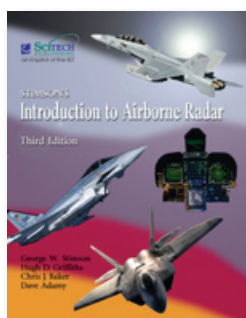
ISBN: 978-1-61353-175-4

Product code: SBEW5140

£80 • \$125



RADAR



STIMSON'S INTRODUCTION TO AIRBORNE RADAR

3rd edition

Hugh Griffiths, Christopher Baker and Dave Adamy

Greatly expanded from the best-selling second edition by George W. Stimson, this third edition provides a complete overview of air and space-borne radar in line with advances in modern technology.

Key features include six new chapters on electronic warfare, seven chapters on special topics and advanced techniques, and real-life practical examples. New edition also now includes end-of-chapter exercises.

See also p. 55

2014

Hardback • 774pp

ISBN: 978-1-61353-022-1

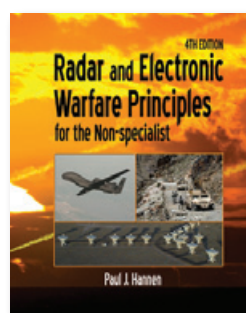
Product code: SBRA5050

£110 • \$175



Digital copy available only at: www.knovel.com

NEW



RADAR AND ELECTRONIC WARFARE PRINCIPLES FOR THE NON-SPECIALIST

4th edition

Paul Hannen

Radar and Electronic Warfare Principles for the Non-Specialist, covers the essentials of radar and electronic warfare in a clear, consistent way. It distills the very complex, rich technologies of radar and EW into its fundamentals, tying them to the laws of nature, on one end, and to the most modern and complex systems on the other.

This book is written specifically for those with little or no knowledge of radar and EW technologies to enable them to critique a first-order radar or EW system design or analysis.

NEW

2014

Paperback • 424pp

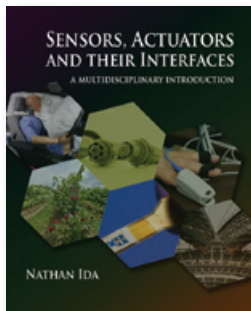
ISBN: 978-1-61353-011-5

Product code: SBRA5020

£53 • \$83



ELECTRONICS



SENSORS, ACTUATORS, AND THEIR INTERFACES: A MULTIDISCIPLINARY INTRODUCTION

NEW

Nathan Ida

This book brings sensors, actuators and interfaces out of obscurity and integrates them for multiple disciplines including electrical, mechanical, chemical, and biomedical engineering.

Real-world cases, worked examples, and problem sets with selected answers provide a fundamental understanding of how industry develops sensor systems.

Students and professionals from any of these disciplines will easily learn the foundational concepts and then be able to apply them to cross-discipline requirements.

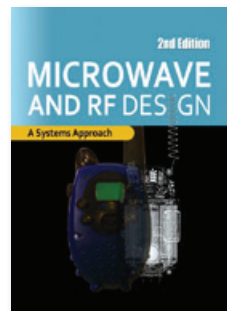
2014

Hardback • 784pp

ISBN: 978-1-61353-006-1

Product code: SBCS5020

£75 • \$125



MICROWAVE & RF DESIGN: A SYSTEMS APPROACH

2nd edition

Michael Steer

Microwave & RF Design is a comprehensive treatment of the subject focusing on the systems and emphasizing design.

The second edition has been updated and considerably expanded with current wireless systems and sections on 4G and the technologies behind 5G cellular communications.

A new chapter on RF modules has been introduced, as well as chapters on mixer and source modules, parallel coupled line filters, wideband amplifiers, power amplifiers, and oscillators.

2013

Hardback • 1194pp

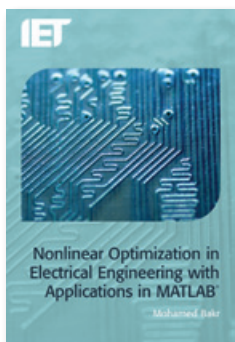
ISBN: 978-1-61353-021-4

Product Code: SBEW5050

£105 • \$173



COMPUTING



NONLINEAR OPTIMIZATION IN ELECTRICAL ENGINEERING WITH APPLICATIONS IN MATLAB®

Mohamed Bakr

This text provides an introductory course on nonlinear optimization in electrical engineering, with a focus on applications and is essential reading for advanced students. It introduces the basic concepts using a step-by-step approach and illustrates with MATLAB® codes that the reader can use and adapt.

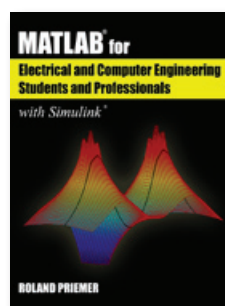
2013

Hardback • 328pp

ISBN: 978-1-84919-543-0

Product code: PBSP0080

£47 • \$76



MATLAB® FOR ELECTRICAL AND COMPUTER ENGINEERING STUDENTS AND PROFESSIONALS: WITH SIMULINK®

Roland Priemer

This text combines the teaching of the MATLAB® programming language with the presentation and development of carefully selected electrical and computer engineering (ECE) fundamentals. It practically demonstrates how MATLAB® can be applied to solve relevant problems with nearly 200 examples, and over 80 programs, to which MATLAB® can be applied.

2013

Paperback • 664pp

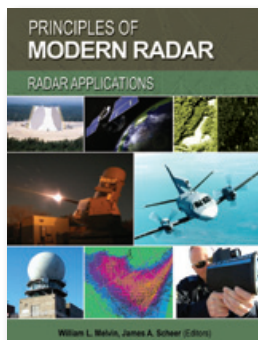
ISBN: 978-1-61353-188-4

Product code: SBPC5010

£47 • \$79



RADAR



2014

Hardback • 816pp

ISBN: 978-1-89112-154-8

Product code: SBRA5030

£100 • \$156



PRINCIPLES OF MODERN RADAR: RADAR APPLICATIONS

NEW

Volume 3

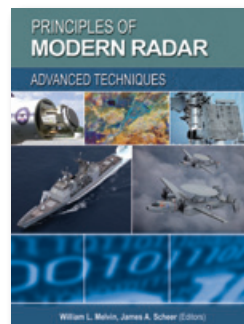
Editors: William L. Melvin and James A. Scheer

The book presents specific real-world applications of radar systems, drawing upon previous editions by combining underlying basic principles with advanced radar techniques.

This edition will serve as a self-contained reference for those aiming to become experts in an advanced technology or application area. It is primarily aimed at radar practitioners within military or government and will also be useful for some advanced graduate students.



For enquiries regarding textbook adoption or for anything else about our textbook range, contact us: textbooks@theiet.org



2013

Hardback • 872pp

ISBN: 978-1-891121-53-1

Product code: SBRA0200

£99 • \$163

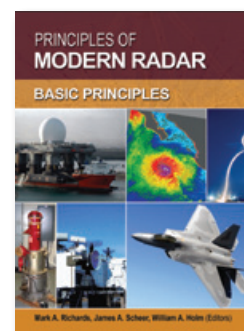


PRINCIPLES OF MODERN RADAR: ADVANCED TECHNIQUES

Volume 2

Editors: William L. Melvin and James A. Scheer

The second volume in the *Principles of Modern Radar* series provides a professional reference with in-depth discussions of the most commonly used advanced techniques for radar design. Topics covered include: exotic waveforms; ultra-high-resolution 2D and 3D imaging methods; complex adaptive interference cancellation; and multi-target tracking in dense scenarios.



2010

Hardback • 960pp

ISBN: 978-1-89112-152-4

Product Code: SBRA0210

£91 • \$145



PRINCIPLES OF MODERN RADAR: BASIC PRINCIPLES

Volume 1

Editors: Mark A. Richards, James A. Scheer and William A. Holm

The first volume of this popular series is a comprehensive textbook for courses in radar systems and technology. It can also be used as a professional training textbook for formal in-house courses; a reference for ongoing study; and a self-study and professional reference book.

Other available textbooks

e	Title	Author(s)/Editor(s)	Format	Pub date	Price (£)	Price (\$)	ISBN	Product Code
✓	Introduction to Biomechanics	Brooker	Hardback	2012	89	142	978-1-891121-27-2	SBCS0030
✓	CMOS Integrated Digital Electronics: A first course	Hawkins, Segura, Zarkesh-Ha	Hardback	2012	66	107	978-1-61353-002-3	SBCS5010
✓	Integral Equation Methods	Volakis & Sertel	Hardback	2012	93	152	978-1-891121-93-7	SBEW0450
✓	Wireless Receiver Design for Digital Communications, 2nd edition	McClaning	Hardback	2012	98	156	978-1-891121-80-7	SBTE0090
✓	Numerical Methods for Engineering: An introduction using MATLAB and computational electromagnetics	Warnick	Paperback	2011	57	89	978-1-89112-199-9	SBEW049Z
✓	Fundamentals of Wave Phenomena, 2nd edition	Hirose & Lonngren	Hardback	2010	49	79	978-1-61353-111-2	SBEW0440
✓	Principles of Modern Radar: Basic principles	Richards, Scheer & Holm	Hardback	2010	96	152	978-1-891121-52-4	SBRA0210
✓	Fundamentals of Electromagnetics with MATLAB, 2nd edition	Lonngren, Savov & Jost	Paperback	2007	79	125	978-1-61353-000-9	SBEW043Z

The IET also publishes a range of titles on the remarkable characters, and outstanding events, that have laid the foundations for developments in engineering and technology over the years.



2012

Hardback • 128pp

ISBN: 978-1-84919-581-2

Product code: PBSP0500

£14.99 • \$24



BUSES, BANKERS & THE BEER OF REVENGE: AN ECCENTRIC ENGINEER COLLECTION

Justin Pollard

A collection of fifty stories, from Greek computers to aircraft carriers made of ice, taken from three years of musings from the author's Eccentric Engineer column.

Since the autumn of 2007 Justin Pollard's Eccentric Engineer column, in the award-winning E&T magazine, has been campaigning to remind engineers of the extraordinary role that their subject has played in human history.

This book highlights not simply the most famous engineering tales but the unusual, the erratic, and occasionally the patently insane. In its fifty stories readers can toy with Roman turbines and Greek computers, look at Renaissance hypertext and have arguments with Americans over the shape of our lightning conductors. But most of all they can celebrate the joys and perils of living in an engineered world.

Justin Pollard is a historian, author of nine books, and one of the writers on the BBC show QI. He has contributed on many different movies from Elizabeth, and the Boy in the Striped Pyjamas, to Pirates of the Caribbean.

Available titles include:

e	Title	Author(s)/ Editor(s)	Format	Pub date	Price (£)	Price (\$)	ISBN	Product Code
✓	The Correspondence of Michael Faraday, Volume 6: 1860-1867	F. James (ed.)	Hardback	2011	98	167	978-0-86341-957-7	PBSP0450
✓	The Correspondence of Michael Faraday, Volume 5: 1855-1860	F. James (ed.)	Hardback	2008	98	167	978-0-86341-823-5	PBSP0440
✓	The Correspondence of Michael Faraday, Volume 4: 1849-1855	F. James (ed.)	Hardback	1999	98	167	978-0-86341-251-6	PBSP0430
✓	The Correspondence of Michael Faraday, Volume 3: 1841-1848	F. James (ed.)	Hardback	1996	98	167	978-0-86341-250-9	PBSP0350
✓	The Correspondence of Michael Faraday, Volume 2: 1832-1840	F. James (ed.)	Hardback	1993	98	167	978-0-86341-249-3	PBSP0290
✓	The Correspondence of Michael Faraday, Volume 1: 1811-1831	F. James (ed.)	Hardback	1991	98	167	978-0-86341-248-6	PBSP0210
✓	Oliver Heaviside: Maverick mastermind of electricity	B. Mahon	Paperback	2009	36	59	978-0-86341-965-2	PBHT0360
✓	The Struggle for Unity: Colour television, the formative years	R.W. Burns	Paperback	2008	60	98	978-0-86341-824-2	PBHT0340
✓	Spacecraft Technology: The early years	M. Williamson	Hardback	2006	60	99	978-0-86341-553-1	PBHT0330
✓	Communications: An international history of the formative years	R.W. Burns	Paperback	2004	60	98	978-0-86341-330-8	PBHT032Z
✓	Electric Railways, 1880-1990	M.C. Duffy	Hardback	2003	60	110	978-0-85296-805-5	PBHT0310
✓	Radio Man: The remarkable rise and fall of C.O. Stanley	M. Frankland	Hardback	2002	36	59	978-0-85296-203-9	PBHT0300
✓	Innovation and the Communications Revolution	J. Bray	Hardback	2002	46	79	978-0-85296-218-3	PBNS0300

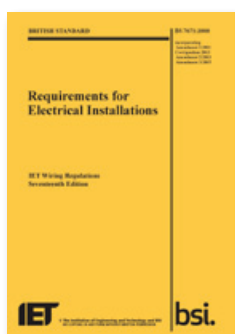
BS 7671 (the IET Wiring Regulations) sets the standards for electrical installation in the UK and many other countries. The IET co-publishes the Regulations with the British Standards Institution (BSI) and is the authority on electrical installation.

A major update to the Regulations will be published in January 2015 – BS 7671:2008 incorporating Amendment No. 3:2015. This affects all users and contains updates that are vital to ensuring the safety of installers and consumers alike.

Potentially life-saving changes are proposed. These changes are expected to include (but are not limited to) amendments in the following areas:

- consumer units (to come into effect January 2016)
- wiring in escape routes
- changes to earth fault loop impedances for all protective devices
- risk assessment approach for the omission of RCDs in non-domestic situations
- updated forms in Appendix 6 for certification and reporting
- changes to definitions throughout the Regulations

The range of related electrical content published by the IET is being updated at the same time, to ensure that the complete collection of expert IET guidance is available from January 2015.



REQUIREMENTS FOR ELECTRICAL INSTALLATIONS: IET WIRING REGULATIONS

Seventeenth edition
BS 7671:2008+A3:2015

NEW

- the IET Wiring Regulations is the national standard to which all domestic and industrial wiring must conform
- Amendment No. 3 contains important updates to several areas of BS 7671, including changes to safety requirements
- essential for electricians, electrical contractors and their managers, installation designers and students in further education and professional training

Jan 2015

Paperback • c.496pp

ISBN: 978-1-84919-769-4

Product code: PWR1703B

£85 • \$136



ON-SITE GUIDE BS 7671:2008+A3:2015

NEW

- an essential guide for quick reference of information on BS 7671
- incorporates the extensive changes in Amendment No. 3 to BS 7671:2008, making this a vital guide to keep up-to-date
- enables the competent electrician to deal with installations (up to 100A, 3-phase) providing essential information in a convenient, easy-to-use format

Jan 2015

Paperback • c.216pp

ISBN: 978-1-84919-887-5

Product code: PWG0173B

£27 • \$43



Electrical Standards Plus offers digital subscriptions to the range of IET Technical Regulations titles. Look out for this symbol to see what is included and visit www.theiet.org/digital-regs for more details.



GUIDANCE NOTE 1: SELECTION & ERECTION

NEW

7th edition

- a fundamental guide for specifiers, installers and those inspecting and testing installations
- contains clear guidance on how to apply the relevant sections of BS 7671
- fully up-to-date with the changes in Amendment No. 3 to BS 7671:2008

Jan 2015

Paperback • c.256pp

ISBN: 978-1-84919-869-1

Product code: PWG1173B

£34 • \$54



GUIDANCE NOTE 2: ISOLATION & SWITCHING

NEW

7th edition

- provides clear guidance on a confusing aspect of BS 7671
- ideal for those working in specification, testing and inspection, and for consulting engineers as well as electrical installers
- fully up-to-date with the changes in Amendment No. 3 to BS 7671:2008

Jan 2015

Paperback • c.92pp

ISBN: 978-1-84919-871-4

Product code: PWG2173B

£29 • \$46



GUIDANCE NOTE 3: INSPECTION & TESTING

NEW

7th edition

- a fundamental guidance book for all those involved with the testing and inspection of electrical installations
- also contains essential guidance for those studying for C&G 2394 and 2395 qualifications
- fully updated to Amendment No. 3 to BS 7671:2008 with the inclusion of new EIC and EICR forms

Jan 2015

Paperback • c.168pp

ISBN: 978-1-84919-873-8

Product code: PWG3173B

£30 • \$48



GUIDANCE NOTE 4: PROTECTION AGAINST FIRE

NEW

7th edition

- a vital guide to an important safety aspect of working with electricity
- aimed at everyone involved with fire safety in electrical installations, including consulting engineers, electrical installers, inspectors and technicians
- contains important updates to fire safety from Amendment No. 3 to BS 7671:2008

Jan 2015

Paperback • c.108pp

ISBN: 978-1-84919-875-2

Product code: PWG4173B

£29 • \$46





Jan 2015

Paperback • c.148pp

ISBN: 978-1-84919-877-6

Product code: PWG5173B

£29 • \$46



GUIDANCE NOTE 5: PROTECTION AGAINST ELECTRIC SHOCK

NEW

7th edition

- a core element of safety for specifiers, designers, contractors and inspectors
- provides clear guidance on how to apply the safety requirements of BS 7671 concerning electric shock
- fully updated to Amendment No. 3 to BS 7671:2008



Jan 2015

Paperback • c.116pp

ISBN: 978-1-84919-879-0

Product code: PWG6173B

£29 • \$46

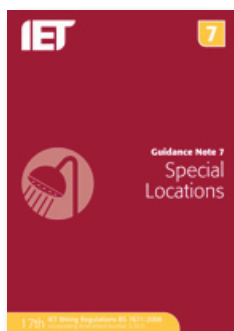


GUIDANCE NOTE 6: PROTECTION AGAINST OVERCURRENT

NEW

7th edition

- a key guide to this important area of BS 7671
- for all involved with specifying, designing, installing or verifying electrical installations
- fully updated to Amendment No. 3 to BS 7671:2008



Jan 2015

Paperback • c.192pp

ISBN: 978-1-84919-881-3

Product code: PWG7173B

£29 • \$46

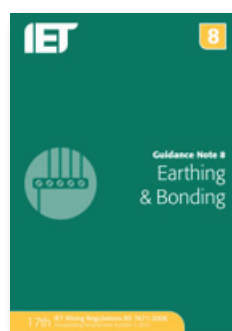


GUIDANCE NOTE 7: SPECIAL LOCATIONS

NEW

5th edition

- provides a comprehensive guide to the various special locations and installations for which additional measures are required to comply with BS 7671
- designed for anyone working in special locations where guidance may vary, including consulting engineers, electricians, electrical installers, inspectors and technicians
- fully updated to Amendment No. 3 to BS 7671:2008



Jan 2015

Paperback • c.188pp

ISBN: 978-1-84919-883-7

Product code: PWG8173B

£29 • \$46

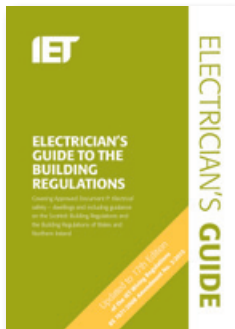


GUIDANCE NOTE 8: EARTHING & BONDING

NEW

3rd edition

- includes updated information from BS 7430:2011 *Code of Practice for Earthing*
- key guidance for all involved with specifying, designing, installing or verifying electrical installations
- fully updated to Amendment No. 3 to BS 7671:2008 and contains additional guidance on arrangements for electric vehicle charging points from Amendment No. 2 to BS 7671:2008



ELECTRICIAN'S GUIDE TO THE BUILDING REGULATIONS

NEW

4th edition

- updated to include the latest guidance on 3rd party certification schemes
- covers relevant parts of the Building Regulations, including Fire Safety, Ventilation and Conservation of Energy
- fully updated to Amendment No. 3 to BS 7671:2008

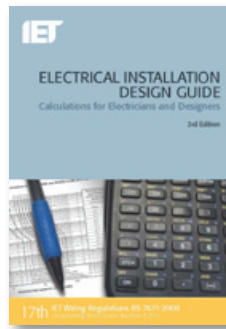
Jan 2015

Paperback • c.254pp

ISBN: 978-1-84919-889-9

Product code: PWGP173B

£25 • \$40



ELECTRICAL INSTALLATION DESIGN GUIDE

NEW

3rd edition

- provides step-by-step guidance on the design of electrical installations
- useful for apprentices and trainees carrying out the calculations necessary for a basic installation
- fully updated to Amendment No. 3 to BS 7671:2008

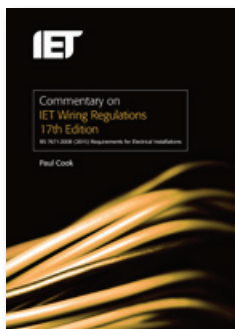
Jan 2015

Paperback • c.228pp

ISBN: 978-1-84919-885-1

Product code: PWGC173B

£36 • \$58



COMMENTARY ON IET WIRING REGULATIONS

NEW

17th edition

(BS 7671:2008+A3:2015 Requirements for Electrical Installations)

- a complete guide to the IET Wiring Regulations
- essential reading for consultants, electricians, installation designers and all those with a professional interest in the implementation and interpretation of BS 7671
- fully updated to Amendment No. 3 to BS 7671:2008

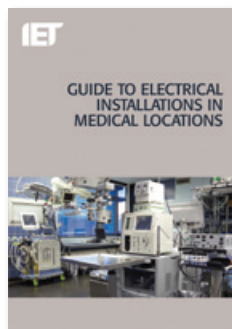
Jan 2015

Hardback • c.492pp

ISBN: 978-1-84919-765-6

Product code: PWCM173B

£90 • \$144



GUIDE TO ELECTRICAL INSTALLATIONS IN MEDICAL LOCATIONS

NEW

- for designers, installers and maintainers of electrical installations in medical locations
- reflects the changes published in the 2013 Corrigendum to BS 7671:2008 (2011)
- definitive guidance on earthing and bonding arrangements in medical locations

Due Spring 2015

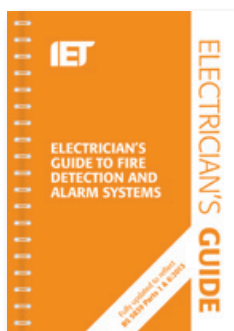
Paperback • c.180pp

ISBN: 978-1-84919-767-0

Product code: PWR11711

£45 • \$72





ELECTRICIAN'S GUIDE TO FIRE DETECTION AND ALARM SYSTEMS

2nd edition

- incorporates the relevant changes to the updated *Code of Practice for Design, Installation, Commissioning and Maintenance of Systems in Non-domestic Premises*
- takes into account the relevant parts of BS 7671 and BS 5839
- essential for all fire alarm designers, installers and specifiers

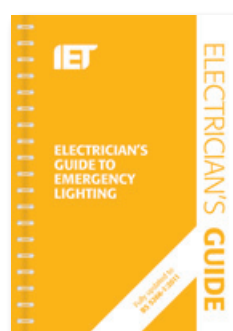
2014

Paperback • 160pp

ISBN: 978-1-84919-763-2

Product code: PWR15130

£25 • \$41



ELECTRICIAN'S GUIDE TO EMERGENCY LIGHTING

2nd edition

- takes into account the relevant parts of BS 7671 and BS 5266
- fully updated to BS 5266-1:2011
- essential for all electricians, electrical contractors and their managers, installation designers, and students in further education and professional training

2014

Paperback • 96pp

ISBN: 978-1-84919-771-7

Product code: PWR15020

£25 • \$41



TEMPORARY POWER SYSTEMS: A GUIDE TO THE APPLICATION OF BS 7671 AND BS 7909 FOR TEMPORARY EVENTS

- provides the reader with a clear understanding of the application of both BS 7671 and BS 7909 to events and other relevant industry guidance
- indispensable guide for all those working with any temporary power system including agricultural shows and outdoors fairs, concerts, theatrical events, film and TV broadcasting, exhibitions, festivals as well as temporary buildings and structures

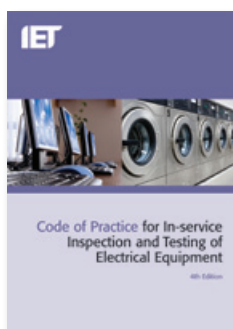
2013

Hardback • 280pp

ISBN: 978-1-84919-723-6

Product code: PWTP171B

£45 • \$72



CODE OF PRACTICE FOR IN-SERVICE INSPECTION AND TESTING OF ELECTRICAL EQUIPMENT

4th edition

- revised to take account of the PAT aspects of Professor Löfstedt's report and the HSE view that promotes a proportionate risk-based approach when assessing the safety of electrical equipment and appliances
- this approach will help users, those responsible for the equipment and testers of the equipment to maintain safety
- HSE encourages the adoption of this approach

2012

Paperback • 152pp

ISBN: 978-1-84919-626-0

Product code: PWR02340

£55 • \$91



Other titles available

Title	Format	Pub date	Price (£)	Price (\$)	ISBN	Product Code
Electrical Craft Principles Volume 1, 5th edition	Paperback	2009	25	40	978-0-86341-932-4	PBNS0330
Electrical Craft Principles Volume 2, 5th edition	Paperback	2009	25	40	978-0-86341-933-1	PBNS0340
Recommendations for the Electrical and Electronic Equipment of Mobile and Fixed Offshore Installations incl. supplement (2 volume set)	Paperback	2009	75	120	978-1-84919-094-7	PWR04030
Code of Practice for Installation of Electrical and Electronic Equipment in Ships BS 8450	Loose-leaf	2006	85	136	978-0-58048-280-9	PWR03160
Electrical Plugs and Wiring and World Electricity Supplies	Paperback	2005	200	320	978-0-58045-158-4	PWR03070
Supplement to Recommendations for the Electrical and Electronic Equipment of Mobile and Fixed Offshore Installations	Paperback	1995	15	24	978-0-85296-846-8	PWR04020
Recommendations for the Electrical and Electronic Equipment of Mobile and Fixed Offshore Installations	Paperback	1992	65	104	978-0-85296-528-3	PWR04010



The IET and City & Guilds work together to produce textbooks and exam guides that are designed to assist with a range of different technical City & Guilds courses. The joint publications are written by experts from both organisations, ensuring that they contain the best available guidance on each topic.

C&G 2365

- the first and only titles available for the new qualifications
- provides all the information that learners need for career success – no need to look elsewhere for support
- written by an expert author team from the IET – content is consistently in line with IET guidelines



LEVEL 2 DIPLOMA IN ELECTRICAL INSTALLATION (C&G 2365): Buildings and structures, units 201-204 and 210

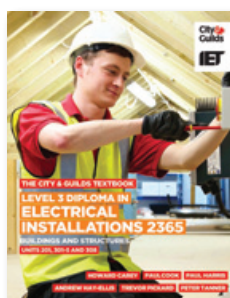
2013

Paperback • 640pp

ISBN: 978-0-85193-282-8

Product code: PWRD6521

£24.99 • \$41



LEVEL 3 DIPLOMA IN ELECTRICAL INSTALLATION (C&G 2365): Buildings and structures, units 201, 301-5 and 308

2013

Paperback • 640pp

ISBN: 978-0-85193-283-5

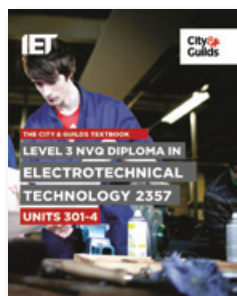
Product code: PWRD6531

£29.99 • \$48



C&G 2357

- a complete companion for learners taking this course
- 30% more content coverage than previous resources – more thorough coverage for learners
- covers all the core units, and linked throughout to City & Guilds online learner and tutor resources on SmartScreen.co.uk



LEVEL 3 NVQ DIPLOMA IN ELECTROTECHNICAL TECHNOLOGY (C&G 2357), units 301-304

2014

Paperback • 304pp

ISBN: 978-0-85193-278-1

Product Code: PWRE5711

£21.99 • \$35



NEW



LEVEL 3 NVQ DIPLOMA IN ELECTROTECHNICAL TECHNOLOGY (C&G 2357), units 305-306

2014

Paperback • 512pp

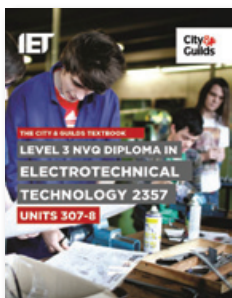
ISBN: 978-0-85193-279-8

Product Code: PWRE5721

£29.99 • \$48



NEW



LEVEL 3 NVQ DIPLOMA IN ELECTROTECHNICAL TECHNOLOGY (C&G 2357), units 307-308

NEW

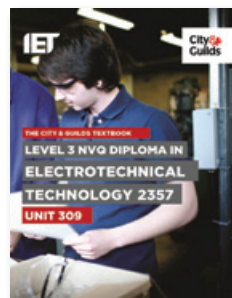
2014

Paperback • 196pp

ISBN: 978-0-85193-280-4

Product code: PWRE5731

£21.99 • \$35



LEVEL 3 NVQ DIPLOMA IN ELECTROTECHNICAL TECHNOLOGY (C&G 2357), unit 309

NEW

2014

Paperback • 196pp

ISBN: 978-0-85193-281-1

Product code: PWRE5741

£21.99 • \$35



Exam Success Guides

These books guide students and practising electrical installers through the technical City & Guilds exams. Each book in this series:

- reinforces learning and understanding of course content
- gives learners focused exam practice
- answers candidates' most frequently asked questions
- offers practical advice and expert tips on sitting the exam



EXAM SUCCESS Inspection and Testing 2394 and 2395

- equips learners with a focused exam preparation tool
- contains practice exams and tips from the examiner

2013

Paperback • 136pp

ISBN: 978-0-85193-292-7

Product code: PWR13945

£15 • \$24



Also available:

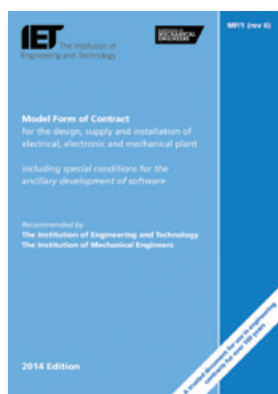
Title	Format	Pub date	Price (£)	Price (\$)	ISBN	Product Code
Exam Success 2382-12	Paperback	2012	17	27	978-0-85193-232-3	PWR05120

Model Form of Contract

for the design, supply and installation of electrical, electronic and mechanical plant

The IET's model form of contract (more commonly known as MF/1) is a key industry template for the supply and installation of electrical, electronic or mechanical plant.

Used by the engineering community for over 100 years this highly regarded and well-developed form can be customised for a specific purpose and has been adapted to be applicable internationally.



Who should buy this contract?

This standard form of contract is recommended to be used by contracts officers in private and public sector organisations, mechanical and electrical engineers, facilities managers, lawyers and in-house legal representatives.

2014 • Paperback • c.94pp

ISBN: 978-1-84919-804-2

Product code: PMPA0180

£70 • \$116



MODEL FORM OF CONTRACT

for the design, supply and installation of electrical, electronic and mechanical plant

MF/1 (Revision 6)

- accommodates the views of purchasers, engineers and the manufacturing industry, resulting in a fair balance between Contractor and Purchaser
- provides flexibility for the parties by providing 'Special Conditions' for particular requirements
- includes a suggested model form of Sub-Contract, suitable for use where the Main Contract is subject to MF/1 Conditions
- provides a range of additional model contract documents, such as a Variation Order, a Taking-Over Certificate, a Notice of Delegation of Authority, Forms of Tender, of Defects Liability Demand Guarantee, of Performance Bond and a Form of Demand Bond
- reflects accepted best practice and standards such as ICC terms

The 2014 edition maintains the original principles of this lump sum contract but this latest revision has had a thorough review by an expert panel. The changes include the following:

- simplified language throughout the document – every clause has been altered to improve the readability of the document, using less antiquated and legalistic language, and making the meaning of each clause much clearer
- most of the optional forms have been revised / moved and re-numbered and the layout improved to aid completion
- the payment provisions (clauses 39 and 40) have been more comprehensively revised to reflect common modern practice
- all UK-specific references have been removed or adapted to allow the document to be used more easily internationally

There are four primary publications within the IET/IMEchE's Model Forms of Electromechanical Contract series:

- MF/1 is intended for use for the design, supply and installation of electrical, electronic and mechanical plant
- MF/2 is intended for use for the supply only of electrical, electronic or mechanical plant
- MF/3 is for use for the supply only of electrical and mechanical goods where no initial design or subsequent installation or commissioning is required
- MF/4 is for use in home or overseas contracts for the engagement of an engineering consultant – available as a free download

Model Form of Contract

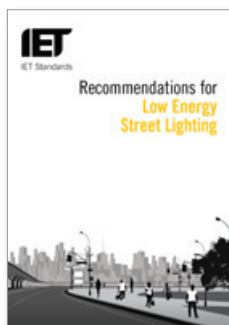
Title	Price (£)	Price (\$)	ISBN	Product Code
MF/1 (Revision 6) Model Form of Contract	70	116	978-1-84919-804-2	PMPA0180
Commentary on MF/1	40	64	978-1-84919-247-7	PMPA1070
MF/2 (Revision 1) Model Form of General Conditions of Contract	60	96	978-0-85296-858-1	PMOTR009
Commentary on MF/2 (Revision 1)	45	72	978-0-85296-758-4	PMPA1020
MF/3 (Revision 1) Model Form of General Conditions of Contract	35	56	978-0-85296-202-2	PMPA1040

Digital Forms

MF/1 is available in an electronic format on a digital licence for 3 month's use. For more details see: www.theiet.org/mf1-digital

Product code: PMPA108E • £70 excluding VAT for a 3-month licence

IET Standards works with industry-leading bodies and experts to publish a range of codes of practice and guidance materials for professional engineers, using its expertise to achieve consensus on best practice in both emerging and established technology fields.



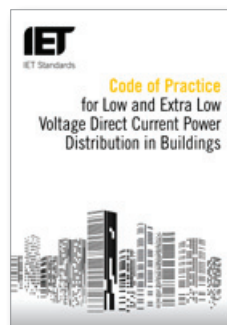
Due Spring 2015
Paperback • c.120pp
ISBN: 978-1-84919-942-1
Product Code: PSLS101P
£75 • \$124



RECOMMENDATIONS FOR LOW ENERGY STREET LIGHTING

NEW

- good practice approach to decision-making, selection and implementation of low energy street lighting projects
- online technical specification guidance available free of charge
- online procurement and business case guidance available free of charge



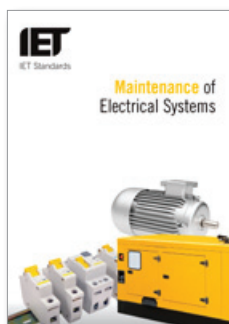
Due Spring 2015
Paperback • c. 60pp
ISBN: 978-1-84919-835-6
Product Code: PSDC001P
£65 • \$107



CODE OF PRACTICE FOR LOW AND EXTRA LOW VOLTAGE DIRECT CURRENT POWER DISTRIBUTION IN BUILDINGS

NEW

- sets out requirements for the growing demand for low voltage direct current power systems
- covers specification, design, selection, installation, commissioning, operation and maintenance
- solutions for telecommunications cabling, power sources and powered devices, and wiring installed specifically for the purpose of direct current power distribution



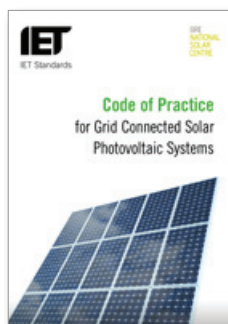
Due Spring 2015
Paperback • c.120pp
ISBN: 978-1-84919-921-6
Product Code: PSES101P
£60 • \$99



MAINTENANCE OF ELECTRICAL SYSTEMS

NEW

- this title provides guidance on carrying out maintenance activities and using good practice maintenance techniques
- draws together key guidance from other IET inspection, safety and maintenance titles to provide a practical overview for duty holders responsible for maintaining electrical systems
- designed for use by electrical contractors carrying out maintenance and by duty holders and building services engineers



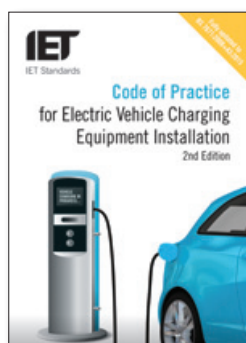
Due Spring 2015
Paperback • c.120pp
ISBN: 978-1-84919-721-2
Product Code: PSPV001P
£69 • \$110



CODE OF PRACTICE FOR GRID CONNECTED SOLAR PHOTOVOLTAIC SYSTEMS

NEW

- aims to provide a full-consensus standard to enable quality design and installation of solar PV systems at all scales of application
- topics covered will include system performance, design and installation and grid connection for ground-and building-mounted solar PV
- relevant to developers, installers, maintainers and operators



CODE OF PRACTICE FOR ELECTRIC VEHICLE CHARGING EQUIPMENT INSTALLATION

2nd edition

- reviews and brings this standard up-to-date with Amendments 1, 2 and 3 of BS 7671:2008
- a definitive guide to safely installing electric vehicle charging equipment
- endorsed by government, contractors, automotive industry, network operators and manufacturers

Due Spring 2015

Paperback • c.90pp

ISBN 978-1-84919-839-4

Product code: PSEV002P

£60 • \$91



NEW



CODE OF PRACTICE FOR CYBER SECURITY IN THE BUILT ENVIRONMENT

NEW

- explains why and how cyber security should be considered throughout a building's lifecycle and explains good practice, focusing on building-related systems and all connections to the wider cyber environment
- provides clear practical guidance to help multi-disciplinary teams understand how the management of key aspects of cyber security relate to their specific jobs and responsibilities in maintaining the security of a building
- intended to act as an integral part of an organisation's overall management system ensuring the cyber security of building related systems

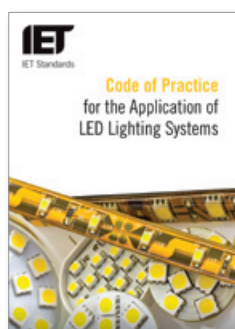
2014

Paperback • c.104pp

ISBN 978-1-84919-891-2

Product code: PSCS001P

£80 • \$132



CODE OF PRACTICE FOR THE APPLICATION OF LED LIGHTING SYSTEMS

- aims to provide confidence to users as a minimum standard for LED lighting systems installation
- topics covered include lighting design, drivers, circuits, physical considerations, commissioning, inspection and maintenance
- relevant to installers, maintainers, operators and systems managers

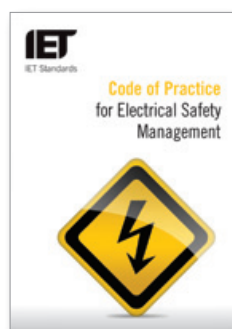
2014

Paperback • c.90pp

ISBN: 978-1-84919-719-9

Product Code: PSLS001P

£55 • \$88



CODE OF PRACTICE FOR ELECTRICAL SAFETY MANAGEMENT

- provides practical guidance using best practice for implementing an effective electrical safety management programme
- recommended for disciplines that have responsibilities for managing electrical safety including electrical engineers, engineering managers, health and safety managers, and facilities managers

2013

Paperback • 104pp

ISBN 978-1-84919-669-7

Product code: PSES001P

£130 • \$208



Also available:

Title	Format	Pub date	Price (£)	Price (\$)	ISBN	Product Code
Successfully Implementing a Plug-In Electric Vehicle Infrastructure	Paperback	2012	750	1200	978-1-84919-605-5	PSEV301P

HOW TO ORDER

Place your order by contacting us or your local representative:

Online: www.theiet.org/books

Phone: +44 (0)1438 767328

Fax: +44 (0)1438 767375

Post: The Institution of Engineering and Technology, PO Box 96, Stevenage, SG1 2SD, UK
See pages 50 & 51 for your local stockist.

Trade, Corporate or Bulk Sale Enquiries

UK/Europe/ROW

Contact: Book Sales Manager, the Institution of Engineering and Technology

T: +44 (0)1438 767655

F: +44 (0)1438 767375

US

Contact: Stylus Publishing LLC

T: +1 703 996 1036

F: +1 703 661 1547

We accept MasterCard, American Express, Visa and Maestro. Please include the expiry date (and issue number and start date when it is valid for Maestro), signature and daytime telephone number. Please do not submit your form by email. The IET takes the security of your personal details very seriously and will not process email transactions. Cheques should be made payable to 'The Institution of Engineering and Technology'. In the UK only, please add VAT at the current rate to all software and electronic product orders. EU customers outside the UK: please state your company's registered VAT number. If you would like to open an account, please call +44 (0)1438 767328 or email us at sales@theiet.org for a credit application form. All prices, rates and publication dates are subject to change without notice.

Delivery

Postage within the UK is free of charge for any number of titles. Outside the UK (Europe) add £5 for the first book and £2 for each additional book. For the rest of the World, add £7.50 for the first book and £2 for each additional book. Books will be sent via airmail. We are happy to offer express delivery/courier options: please call +44 (0)1438 767328 or email sales@theiet.org for rates. Please allow 3–5 days for UK delivery, and approximately 4 weeks for overseas. Orders placed before 12 noon can be delivered the next day in the UK for an additional charge: please contact us for prices.

Customer Service

If you have a question about your order, invoice or payment, or if you have a general enquiry about any of our publications, please call our customer services team on +44 (0)1438 767328 or email sales@theiet.org.

Data Protection Notice:

The information that you provide to the IET will be used to ensure we provide you with products and services that best meet your needs. This may include the promotion of specific IET products and services by post and/or electronic means. By providing us with your email address and/or mobile telephone number you agree that we may contact you by electronic means. You can change this preference at any time by visiting www.theiet.org/my.

IET Terms

Trade Customers

The IET operates on a sale or return basis. Returns can be made up to 10 months after the invoice date; returns received after this time will not be acknowledged or credited. Books must be returned in a re-saleable condition in order to receive a credit note, damaged returns will be destroyed and no credit note will be issued. Imperfect or damaged copies will be replaced, the customer will only be required to return the book jacket or send in photographic evidence in these cases.

Consumers

Returns should be received by our Warehouse within 30 days from date of purchase and must be returned in a re-saleable condition in order to receive a refund. Imperfect or damaged copies will be replaced.

Member Discounts

IET members are entitled to a 35% discount per single copy book ordered and need to quote their membership number when ordering. If more than one copy of a title is ordered then the discount will be applied to the first copy only. Books purchased with a member discount should be for personal use only and should not be resold.

Textbook Adoptions

If a book is of interest for a course you are teaching, please contact us: textbooks@theiet.org.

PLACING AN ORDER

Please complete the following order form and send it to us using one of the methods listed on page 48. Please do not submit your form by email. The IET takes the security of your personal details very seriously and will not process emailed credit card transactions.

Your Details

Name: _____

Job title: _____

Company/institution: _____

Address: _____

Postcode/Zipcode: Country:

Tel: _____ Fax: _____

Membership no. (if Institution member):

Payment Details

☐ By cheque made payable to 'The Institution of Engineering and Technology'

Credit Card Information:

Payment Amount: Currency:

Name as it appears on the Credit Card/Debit Card:

Signature: _____ Date: dd / mm / yyyy

Please debit my (tick as appropriate)

☐ Visa ☐ Visa Debit ☐ Visa Electron ☐ Master Card ☐ JCB ☐ Solo ☐ Maestro ☐ American Express

Credit Card Number

Expiry date (MM/YY) 3 or 4 digit security code

For Maestro or Solo cards only: Start Date (MM/YY) or Issue no.

Card holder billing address (if different from 'your details' section)

Street address: _____ Town: _____

County/State: Postcode/Zipcode: Country:

Phone number of card holder: _____ Email address: _____

Books

[illegible]

***Postage/Handling**

Postage within the UK is free of charge for any number of titles. Outside UK (Europe) add £5 for first book and £2 for each additional book. Rest of World add £7.50 for first book and £2 for each additional book. Books will be sent via airmail. Courier rates are available on request, please call + 44 (0) 1438 767328 or email sales@theiet.org for rates.

** To qualify for discounts, member orders must be placed directly with the Institution, see page 48 for details.

Subtotal	
Member Discount**	
+ Postage/Handling*	
Grand Total	

Booksellers and Stockists

AUSTRALIA & NEW ZEALAND

EA Books

The Engineers Bookshop
Level 4, 2 Ernest Place
Crows Nest
NSW, Australia 2065
W: www.eabooks.com.au

James Bennett

Unit 3, 114 Old Pittwater Road
Brookvale NSW 2100
Australia
T: +61 2 8988 5000
E: info@bennett.com.au

CHINA

China National Publication Import & Export Corporation

Beijing Branch
16 East Gongti Road
Chaoyang District
Beijing, 100020
P.R. China

T: +86 10 6586 7008
E: chenzhi@cnpiec.com.cn

China Educational Publications Import & Export Corporation Ltd

No. 130 Liang Jia Dian
Haidan District
Beijing 100142
P.R. China

T: +86 10 5793 3212
W: www.cepiec.com.cn

DENMARK

Aalborg Centerboghandel

Fibigerstraede 15
DK-9220 Aalborg
T: +45 98 158922
E: baj@centerboghandel.dk

FRANCE

Librairie Lavoisier

11 rue Lavoisier
75008 Paris
T: +33 (0)1 47 406750

GERMANY

Dietmar Dreier

Bernhard-Röcken-Weg 1
47228 Duisburg
T: +49 2065 77 55 0
E: info@dietmardreier.de

J F Lehmanns

Hardenbergstrasse 11
d-10623 Berlin
E: bestellung@jf-lehmanns.de

Missing Link

Westerstrasse 114-116
d-28199 Bremen
E: info@missing-link.de

HONG KONG

Swindon Book Company

13-15 Lock Road
Tsim Sha Tsui, Kowloon
T: + 852 2367 8789

INDIA

CBS Publishers & Distributors Pvt. Ltd

4819/XI, Prahlad Street
24, Ansari Road
Daryaganj
New Delhi - 110002
T: +91 11 2328 9259
+91 11 2326 6861/67
F: +91 11 2324 3014
E: delhi@cbspd.com

STAR Educational Books Distributor Pvt. Ltd

24/4800, Bharat Ram Road
Daryaganj
New Delhi - 110002

T: +91 11 4156 2819
+91 11 2326 4462
Direct No. +91-11-43512988
M: +91-8800549949
F: +91 11 2326 4451
E: orders@star-bk.com
W: www.star-bk.com

Shri Adhya Educational Books Pvt. Ltd

4223/1, Ansari Road
Daryaganj
New Delhi -110002
T: +91 11 4350 7216/17
M: +91 98 1101 4530
M: +91 93 1320 8158
E: ekagra@booksae.com

Shankar's Book Agency Pvt. Ltd

103 Munish Plaza
20 Ansari Road
PO Box 7031
New Delhi - 110002
T: +91 11 232 79967
E: sbad@vsnl.com

Saras Books

2/31 Ansari Road
Daryaganj
New Delhi - 110002
T: +91 11 2328 3800
F: +91 11 2326 4765
E: cuckoo@ndf.vsnl.net.in

Scientific International Pvt. Ltd. 4850/24, Ansari Road,

(Near Sanjeevan Nursing Home)
Daryaganj, New Delhi-110002
(India)
T: +91 2328 7580/84
+91 2328 9263
F: +91 98 1077 3223
E: info@siplind.com
W: www.siplind.com

Aditya Books (P) Ltd

B-116, Sector 67
District Gautam
Budh Nagar
Noida-201301(U.P.)
T: 0120-2484151
F: 0120-2484150
M: +91-9810773223
E: orders@adityabooks.in
W: www.adityabooks.in

ITALY

DEA Mediagroup

Via Pietro Boccaneli, 27
00138 Roma Italy
T: +39 06 852121
E: info@deamediagroup.com

Licosa Spa

LI.CO.SA. - LIB. COMM.
Sansoni Spa
Via Duca Di Calabria, 1/1
I-50125 Firenze
T: +39 055 64831
E: licossa@licossa.com

JAPAN

Kinokuniya Company Ltd

38-1 Sakuragaoka 5-chome
Setagaya-ku, Tokyo 156
W: www.kinokuniya.co.jp

Maruzen Company Ltd

2-3-10, Nihombashi, Chuo-Ku
Tokyo, 103-8245
W: www.maruzen.co.jp

KENYA

Gabby Books(K) Ltd

3rd Floor Occidental Plaza
Muthithi Road Westlands
PO Box 157-01001
Juja, Kenya
T: +254 20 374 2834
E: Gabriel@gabbybooks.co.ke

KOREA

Kyobo Book Center

1, 1Ka Chongno,
Chongno-Ku
Kwang Whamun
Seoul
W: www.kyobobook.co.kr

MALAYSIA

YPJ Publications

84-86 Tingkat 2
Bangunan Enam Tingkat
Jld Raja Bot
Kampung Bahru 50300
T: +60 7 241 6651
E: ypj@streamyx.com

Areesh Education & Trading S/B

D5-3A-G, Pusat Perdagangan
Dana 1
Jalan PJU 1A/46
47301, Petaling Jaya
Selangor DE
Malaysia
T: +60 3 7842 6036
F: +60 3 7842 6040
E: areesh@unifi.my

Yuha Associates

No 17 Jalan Bola Jaring
13/15 seksyen 13
40000 Shah Alam
Selangor Darul Ehsan
T: +60 3 5511 9799
F: +60 3 5519 4677
E: yuha_sb@tm.net.my

MIDDLE EAST

Haward Publications

Haward Technology Middle East
Al Khubairah Tower
Block C Mezzanine Floor
Unit M03 Khalidiya Street
(behind Prestige Car Showroom
Near Premier Motors)
Abu Dhabi UAE
T/F: +971 2 596 9400
+971 2 596 9401
M: +971 55 9184495
E: paul@haward.cc
W: www.haward.cc

Pan World General Trading

Flat No. 214, Al Jabree Building
Al Nadha
Sharjah-UAE
P.O. Box 49672
T: +971 50 1646168
T: +971 6 5307225
F: +971 6 5307224
E: info@panworldllc.com
W: www.panworldllc.com

NETHERLANDS

Transmedia BV

Utrechtsestraatweg 15
PO Box 46
3958 ZT Amerongen
T: +31 343 454003
F: +31 343 457777
E: info@transmedia.nl

NORWAY

Tapir

University of Trondheim
N-7005 Trondheim
E: inf@tapir.no

PAKISTAN

Pak Book Corporation

Aziz Chambers
21 Queen's Road, Lahore
E: pakbook@brain.net.pk

Progressive International Agencies (PVT) Limited

174-x, Block 2, Off Tariq Road
PO Box 8069, Karachi
T: (021) 34525544-46
F: (021) 34546687
E: books@progressivebooks.net
W: www.progressivebooks.net

POLAND

ABE Marketing

Grzybowska 37A
00-855 Warszawa
T: +48 22 654 06 75
E: info@abe.com.pl

PORTUGAL

Julio Logrado de Figueiredo

Campo Grande 380
Lote 3C (Esc.A)
1700-097 Lisboa
T: +351 21 754 1600
E: info@jlf.pt

Booksellers and Stockists

REPUBLIC OF IRELAND

The Book Nest

5 Rockwood Parade, Sligo
Rep. of Ireland
T: +353 71 9148 263
E: order@booknest.ie
W: www.booknest.ie

SINGAPORE

Alkem Company (Singapore) Pte Ltd

1, Penjuru Close
Singapore 608617
T: +65 6265 6666
F: +65 6261 7875
E: melvinchoo@alkem.com.sg

SLOVAKIA

Male Centrum

Cernysevskeho. 35
810 05
Bratislava 15
T: +421 2 52931122
E: bookshop@malecentrum.sk

SOUTH AFRICA

Knowledge Resources

Ground Floor, Yellowwood House
Ballywoods Office Park
33 Ballyclare Drive, Bryanston
T: +27 11 706 6009
M: +27 83 407 9115
F: +27 11 706 1127
E: abri@knowres.co.za
W: www.kr.co.za

SWEDEN

Computer Press Forlags AB

Orviksvaegen 15 Box 893
851 24 Sundsvall
W: www.computerpress.se

SWITZERLAND

Hans Huber

Zeltweg 6
Zürich CH-8032
E: huberquerich@hanshuber.com

TAIWAN

Unifacmanu

4th Floor
91 Ho-Ping East Road Sec. 1
10609 Taipei
T: +886 2 2394 2749
E: unifacmau@ms34.hinet.net

TANZANIA

Rennicks Bookshop Co. Ltd.

P.O. Box 7775
Moshi, Tanzania

THAILAND

Source One Ltd

1173/5/7/9 Srinakharin Road
Suan Luang
Bangkok 10250
E: tata@book.co.th

UNITED KINGDOM

Gardners Books

1 Whittle Drive
Willingdon Drive
Eastbourne BN23 6QH
T: +44 (0)1323 521555
E: custcare@gardners.com

Bertram Books

1 Broadland Business Park
Norwich
Norfolk NR7 0WF
T: +44 (0)871 803 6607
E: books@bertrams.com

Coutts

Headlands Business Park
Ringwood
Hampshire BH24 3PB
T: +44 (0)1425 4471160
E: salesuk@couttsinfo.com

W & G Foyle

113-119 Charing Cross Rd
London WC2
T: +44 (0)20 7440 3251
E: technical@foyles.co.uk

Dawson Books

1 Broadland Business Park
Norwich
Norfolk NR7 0WF
T: +44 (0)1603 648137
F: +44 (0)871 803 6709
E: enquiries@dawsonbooks.co.uk

Professional Bookshops Limited

Elmcroft Park
Bishops Cannings
Devizes
Wiltshire SN10 2LF
T: +44 (0)1380 820003
F: +44 (0)1380 860985
E: sales@professionalbooks.co.uk
W: www.professionalbooks.co.uk

Regional Representatives and Agents

ITALY, FRANCE, SPAIN, PORTUGAL & GREECE

Flavio Marcello

Marcello s.a.s.
Publishers' Representatives
Via Belzoni, 12, 35121 Padova, Italy
T: +39 049 8360671
F: +39 049 8786759
E: marcello@marcellos.it

BENELUX

Frans Janssen

Netwerk Academic Book Agency
P.O.Box 33228
3005 EE Rotterdam
The Netherlands
T: (31) 10 4613868
E: info@netwerkaba.com/info@netwerkaba.nl
W: www.netwerkaba.com

GCC COUNTRIES, IRAQ, LEBANON, EGYPT, LIBYA, SUDAN

Avicenna Partnership Ltd

PO Box 484, Oxford OX2 9WQ
United Kingdom
T: +44 (0)1865 881518
F: +44 (0)1865 882966
E: avicennabk@gmail.com

CYPRUS, MALTA, TURKEY, MOROCCO, TUNISIA, ALGERIA, JORDAN & PALESTINE

Avicenna Partnership Ltd

PO Box 484, Oxford OX2 9WQ
United Kingdom
T: +44 (0)1865 881518
F: +44 (0)1865 882966

Claire de Gruchy

E: claire_degruchy@yahoo.co.uk

INDIA, SRI LANKA & BANGLADESH

Ravindra Saxena

Sara Books Pvt Ltd, G-1
Vardaan House, 7/28, Ansari Road, Daryaganj
New Delhi - 110002, India
T: +91 11 23266107
F: +91 11 43046222
E: ravindrasaxena@sarabooksindia.com

PAKISTAN

Tahir M Lodhi

Publishers Representatives
14-G Canalberg H.S, Multan Road
Lahore 53700, Pakistan
T: +42 325292168
E: tahirlodhi@gmail.com

CHINA

The Charlesworth Group

Room 503, 5th Floor, Lianxin Guoji Dasha
(Lianxin International Building)
No. 4, Chenjialin, Balizhuang Cultural
Creative Industrial Park
Gaobeidian, Chaoyang District
Beijing, P.R. China, Postcode: 100025
T: +86 (10) 87521278
E: china@charlesworth.com.cn

USA & CANADA

Stylus Publishing, LLC

Andrea Ciecierski, Vice President
Marketing & Business Development
22883 Quicksilver Drive
Sterling, VA 20166-2012
T: +1 703 996 1036
F: +1 703 661 1547

AFRICA

Guy Simpson

Africa Connection, The Old School House
Wallingford Road, Mongewell
Oxfordshire, OX10 8DY
T: +44 1491 837028
M: +44 7425 360266
E: guy.simpson@africaconnection.co.uk
Skype: guysimpson1

**FREE
trials
available**

NEW

IET eBook Subject Collections

The full range of IET eBooks are available on a perpetual basis in a variety of complete, front and back list collections. Now also available in a range of **8 convenient subject specific collections**, covering 11 specialist areas, these subject collections provide focus in a particular topic, allowing the researcher to access content more easily in their field.

Available via the **IET Digital Library** with all the functionality that a user expects from a modern platform, **IET eBook Subject Collections** are available to purchase with perpetual access.

The 8 subject collections available are:

- Computing
- Control, Robotics & Sensors
- Electromagnetic Waves
- Energy Engineering
- History & Management of Technology
- Materials, Circuits & Devices
- Radar, Sonar & Navigation
- Telecommunications

Contact us for further information or to request a FREE trial

www.theiet.org/eBooks



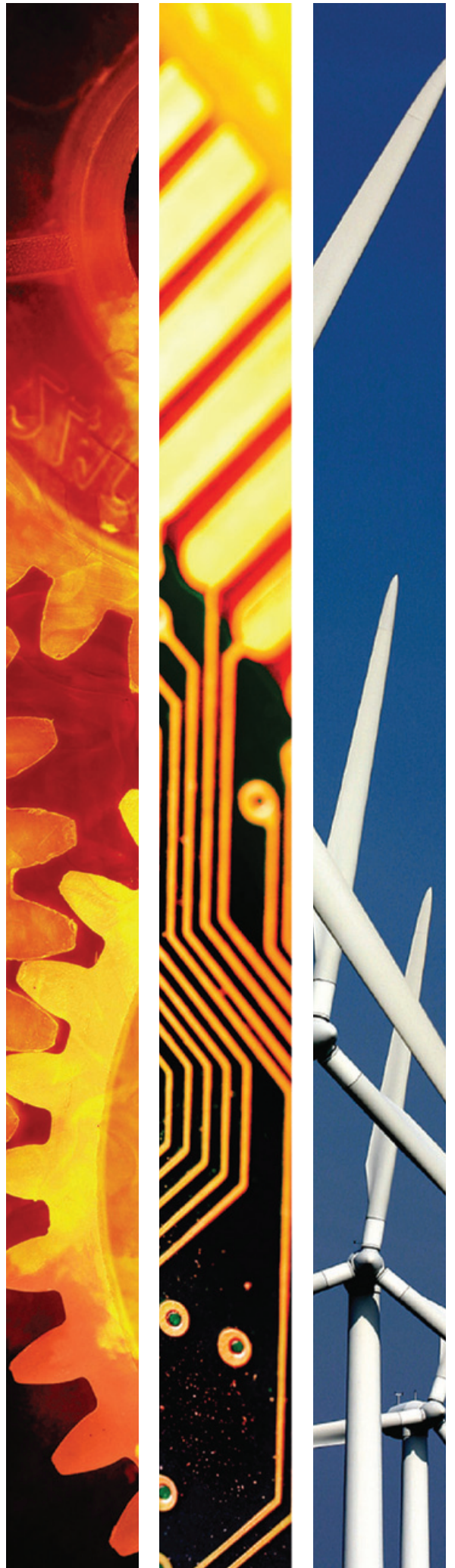
Powering quality research

The leading bibliographic database, providing abstracts and indexing to the world's scientific and technical papers in:

- physics
- electrical engineering & electronics
- computers & control
- information technology
- mechanical & production engineering

Combining close to 15 million records of the highest quality research information with comprehensive coverage and specialised indexing, you can understand why the world's most innovative universities, research institutes and dynamic businesses rely on the Inspec database.

www.theiet.org/inspec



The Institution of Engineering and Technology is registered as a Charity in England & Wales (no 211014) and Scotland (no SC038698).
The IET, Michael Faraday House, Six Hills Way, Stevenage, SG1 2AY, UK.

*“A **must have** for all radar enthusiasts”*

Stimson's Introduction to Airborne Radar

3rd edition

Hugh Griffiths, Christopher Baker and Dave Adamy

Widely acknowledged as the only textbook to offer **a complete overview of modern technical radar principles of the last 15-20 years**, this greatly expanded and modernised revision is suited to both new and experienced radar enthusiasts.

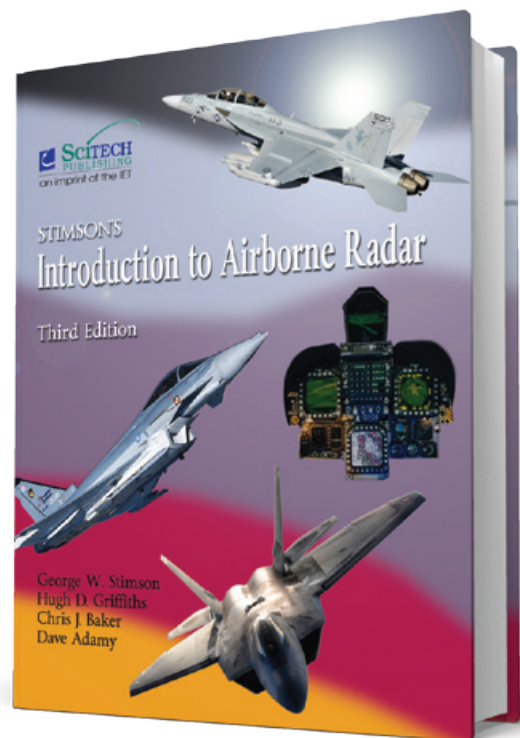
- All chapters have been revised in line with modern technologies
- Two brand new sections added including 6 chapters on electronic warfare and 7 chapters on special topics and advanced techniques
- Written by an extensive team of highly respected radar editors, authors and experts world-wide
- Ideal for undergraduate training courses
- Includes over 1200 amazing full colour graphics

Stimson's Introduction to Airborne Radar, 3rd edition is not only a first choice for those beginning their research journey into radar but it will also be a hugely beneficial reference text for radar and general defence engineers, military pilots, students studying radar, aviation and aeronautics, defence contractors, avionic technicians and all levels of radar personnel.

Featured in Radar, Sonar & Navigation (p. 25) and Textbooks and Training (p. 34) in this catalogue.

For further information visit:

www.theiet.org/books-stimsons3rd



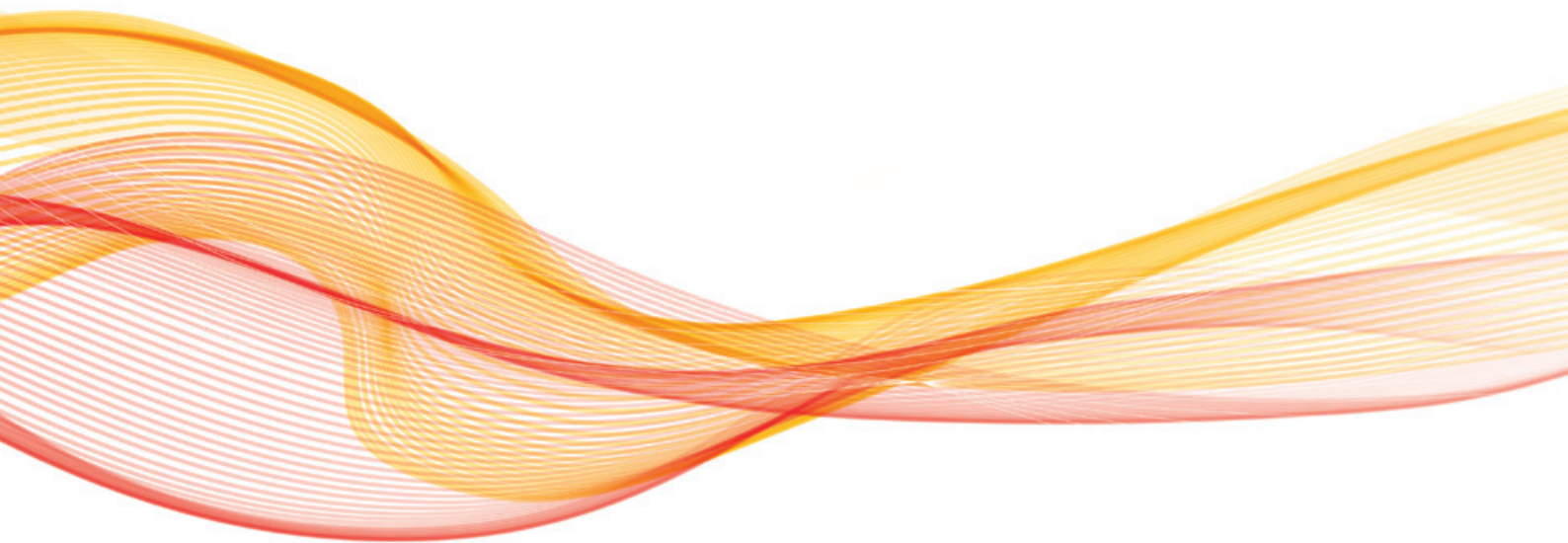
Hardback: 774pp
ISBN: 978-1-61353-022-1
Publish date: May 2014
Retail price: £110 / \$175

- Acarnley, P.P. 9
 Acha 23
 Ackerley, R. 33
 Adamy, D. 14, 25, 28, 34
 Akujuobi 33
 Alabaster 28
 Alcorn 23
 Al-Hashimi, B. 18
 Allnutt, J.E. 15
 Ametani, A. 19
 Anc, M. 18
 Andersen, J.B. 31
 Anderson, J.R. 33
 André, P.G. 14
 Andronov, I. 15
 Annaz, F.Y. 8
 Armstrong, G.A. 18
 Arrillaga, J. 23
 Ashby, C. 18
 Awan, S.A. 18
 Azad, A. 7
 Azad, A.K.M. 9
 Baca, A. 18
 Baccarelli, P. 12
 Bach-Anderson, J. 15
 Baker, C. 15, 25, 28, 34
 Bakr, M. 35
 Balaguer 9
 Bancroft 15
 Barclay, L. 15
 Beckley, P. 23
 Bienkowski 15
 Blaabjerg, F. 19, 21
 Blacknell 28
 Blake 15
 Bock, A. 33
 Bostian, C.W. 32
 Bouche, D. 15
 Bouwman 28
 Bray, J. 37
 Briggs, J. 28
 Brooker, G. 18, 28, 36
 Brownsword 5
 Brusque, C. 16
 Bryans, L. 22
 Buckley, J. 33
 Bullock, S.R. 17
 Burghignoli, P. 12
 Burns, R.W. 37
 Chao 33
 Chen, L.J. 18
 Chen, V.C. 25
 Cheng, C. 24
 Chowdhury, S. 23
 Chowdhury, S.P. 23
 Chung, H.S. 21
 Collier, R. 18
 Cooray, V. 22, 23
 Crossley, P. 23
 Curry 28
 Czisch, G. 23
 da Costa, J.S. 9
 Daniele, V.G. 14
 Daniels, D. 28
 Darney 15
 Davis 28
 De Maio, A. 24, 28
 Demir, V. 10, 34
 DiFranco 28
 Ding 9
 Drury, W. 23
 Duff, W.G. 15
 Duffy, M.C. 37
 Dyos, G. 18
 Ekanayake, J. 23
 Elsherbeni, A. 10, 13, 34
 Ericsson, C.W. 5
 Evans, S. 33
 Fairhurst, M.C. 29
 Favez, A. 32
 Feucht 18
 Fiorini, M. 16
 Flin, D. 23
 Flynn, D. 22, 23
 Forsyth, P. 5
 Fox, B. 22, 23
 France, P. 33
 Frankland, M. 37
 Fridman, L. 9
 Fujioka, H. 9
 Galli, A. 12
 Gao 9, 15, 16
 Garelli 9
 Garrett, S. 33
 Gaydecki, P. 18
 Gers, J. 23
 Ghanbari, M. 33
 Ghausi 18
 Gini, F. 28
 Girija 9
 Graglia, R.D. 10
 Greco, M.S. 24
 Gregson, S. 13, 15
 Griffiths, H. 15, 25, 28, 34
 Grudzinski, E. 14, 15
 Guay, M. 8
 Guo, Y. 6
 Haddad, M. 23
 Han, J. 4
 Hannen, P. 26, 28, 34
 Harvey, R. 9
 Hawkins, C. 18, 36
 Hirose 36
 Holder, E. J. 26
 Hollister 18
 Holm, W.A. 27, 36
 Holt, J. 5
 Hossain, J. 16, 20
 Hsu, T. 18
 Ida, N. 17, 35
 Irish, V. 5
 Iyer, S. 18
 Jabeur, N. 6
 Jackson, D. 12
 James, F. 37
 James, R. 23
 Jankiraman 28
 Jeffrey 28
 Jenkins, N. 23
 Josefsson, L. 11
 Jost, Randy J. 12, 15, 36
 Kaminski, N.J. 32
 Kay, F. 5
 Khatib, H. 22
 Kibble, B. 18
 Klemm, R. 28
 Knott 28
 Kolodko, J. 9
 Krems, J. 16
 Krishnamurthy, P. 32
 Kularatna, N. 18
 Labouret, A. 23
 Laker 18
 Leigh, J.R. 9
 Leva 9
 Lewis, R. 8, 9
 Li 5, 9, 16
 Lin, J-C 16
 Liu 9, 16
 Long 15, 28
 Lonngren 36
 Lovat, G. 12
 Lovera, M. 8
 Lu, Junwei 16, 20
 Lyalinov 15
 Lynch 28
 Mack, R. 13
 Maggio 9
 Mahmoud, M.S. 9
 Mahon, B. 37
 Maiti, C.K. 18
 Marouchos, C. 18
 Martorella, M. 25
 Matzler, C. 15
 McClaning 33, 36
 McCormick, J. 13, 15
 McShea, R.E. 25, 28
 Melvin, W.L. 15, 27, 36
 Messina, A.R. 20
 Miceli, W.J. 25
 Miller, J.M. 16, 23
 Mitchell, C. 5, 33
 Mitchell, P. 23
 Molinet, F. 15
 Monzingo 15
 Morfett, I. 31
 Morrison, N. 28
 Morrison, R. 5
 Morrison, R.E. 5
 Mynott, C. 5
 Nasar 15
 Nayeri, P. 13
 Nefti-Meziani, S. 9
 Newbery, G. 23
 Ngo, C. 23
 O'Brien, J. 9
 O'Sullivan 23
 Ogrenci-Memik, S. 17
 Oodan, A.P. 33
 Otung, I. 33
 Papadopoulos 9
 Parini, C. 13, 15
 Parker, K. 23
 Pasmurov, A. 28
 Patton, L.K. 28
 Penman, J. 23
 Perry, S. 5
 Peterson, A.F. 10
 Pollard, J. 37
 Priemer, R. 35
 Ralph, D. 33
 Ralston 18
 Ran, L. 23
 Raol 9
 Rashvand 33
 Reddy, C.J. 13
 Register 5
 Regnault, J. 33
 Remagnino, P. 5
 Ren, J. 4
 Rengarajan, S.R. 11
 Richards 36
 Richards, M.A. 27
 Roberts, G. 9, 16
 Rodriguez-Villegas, E. 18
 Romeiser 15
 Ruano, A. 9
 Ruby 28
 Ryan 23
 Sabanovic, A. 9
 Sadiku 33
 Sandom, C. 9
 Sangster, A.J. 18
 Savov 36
 Scheer, J.A. 15, 27, 36
 Schlabbach, J. 23
 Schurr, J. 18
 Searby, S. 33
 Sedding, H. 23
 Segall, A. 4
 Segura, J. 18, 36
 Sertel 15, 36
 Seshadri 15
 Sevic, J. 13
 Simoes, J. 33
 Singh 9
 Skinner, D. 18
 Smyth, P. 33
 Spurgeon, S. 9
 Sreenath, K. 9
 Srinathkumar, S. 9
 Steer, M. 15, 35
 Stevens, A. 16
 Stewart, S. 23
 Strbac, G. 23
 Su, Q. 23
 Sullivan 28
 Sun, Y. 18
 Sutton, R. 9, 16
 Tahmoush, D. 25
 Tait, P. 28
 Tavner, P. 23
 Temple, R. 33
 Ter-Gazarian, A. 23
 Terraneo 9
 Titterton, D. 28
 Tokhi, M.O. 7, 9
 Toomay 28
 Tough, R. 28
 Trzaska, H. 14, 15
 Trzynadlowski, A.M. 21
 Tsui, James 24, 28
 Turnbull, J. 33
 Ufimtsev 15
 Uriarte, F.M. 23
 Valdar, A. 31, 33
 Valério, D. 9
 Vamvoudakis 9
 van Rensburg, D.J. 13
 Varma, V.K. 30
 Vaughan, R.G. 15, 31
 Velastin, S.A. 5
 Veres, S. 9
 Viloz, M. 23
 Vishloff, L. 30
 Vittorio 9
 Vlacic, L. 9
 Volakis 15, 36
 Vrabie 9
 Wang, D. 7, 19
 Wang, H. 21
 Wang, M. 18
 Wang, Y. 6
 Ward, K. 28
 Wareing, B. 23
 Warne, D. 23
 Warnick 36
 Watson, N. 23
 Watts, S. 28
 Wautelet, M. 18
 Wellington, P. 5
 Weston, J. 28
 Whitfield, J. 18
 Wicks 28
 Williamson, M. 37
 Willis 28
 Wirth 28
 Witte, R.A. 13
 Wong, K. D. 30
 Wood, J. 23
 Wright, A. 23
 Wyatt, K. 12, 14, 15
 Xie, L. 6
 Yang 5
 Young, A. 32
 Yu 5
 Zarkesh-Ha, P. 18, 36
 Zeadally, S. 6
 Zetterling, C.M. 18
 Zhou, K. 7, 19
 Zhu 15
 Zich, R.S. 14
 Zinovjev, S. 28
 Zoitl, A. 8

2008+ Solved Problems in Electromagnetics	15	Condition Monitoring of Rotating Electrical Machines	23
A Guide to MATLAB Object-Oriented Programming	5	Control Techniques Drives and Controls Handbook, 2nd edition.....	23
Active Sound and Vibration Control: Theory and applications	9	Control Theory, 2nd edition	9
Adaptive Sampling with Mobile WSN: Simultaneous robot localisation and mapping of paramagnetic spatio-temporal fields	9	Control Theory: A guided tour, 3rd edition	9
Advanced Control for Constrained Processes and Systems	9	Control-Based Operating System Design	9
Advances in Bistatic Radar	28	Control-Oriented Modelling and Identification: Theory and practice.....	8
Advances in Cognitive Systems	9	Cyber-Physical System Design with Sensor Networking Technologies	6
Advances in High Voltage Engineering	23	Demystifying Marketing: A guide to the fundamentals for engineers	5
Advances in Unmanned Marine Vehicles	9	Design and Development of Multi-Lane Smart Electromechanical Actuators	8
Age Factors in Biometric Processing	29	Design of High frequency Integrated Analogue filters.....	18
Airborne Early Warning System Concepts, 3rd edition	28	Design of Multi-Frequency CW Radars	28
An Introduction to Fractional Control	9	Designing Electronic Systems for EMC	15
Analog Circuit Design: Amplifier circuits:1	18	Developing Effective Engineering Leadership.....	5
Analog Circuit Design: Dynamic circuit response: 2	18	Developments in Control Theory Towards Global Control	9
Analog Circuit Design: High performance amplifiers: 3	18	Digital and Analogue Instrumentation: Testing and measurement	18
Analog Circuit Design: Waveform processing circuits: 4	18	Digital Communications: Principles and systems	33
Analysis and Design of Reset Control Systems	6	Digital Techniques for Wideband Receivers	28
Angle of Arrival Estimation Using Radar Interferometry.....	26	Digital Techniques for Wideband Receivers, 3rd edition.....	24
Antenna Analysis and Design Using FEKO Electromagnetic Simulation Software.....	13	Distributed Control and Filtering for Industrial Systems	9
Antennas: Fundamentals, design, measurement, 3rd edition	15	Distributed Generation	23
Application of Dimensional Analysis in Systems Modelling and Control Design	9	Distribution Switchgear	23
Applications of Space-Time Adaptive Processing	28	Distribution System Analysis and Automation	23
Asymptotic and Hybrid Methods in Electromagnetics	15	Driver Adaptation to Information and Assistance Systems.....	16
Bistatic Radar, 2nd edition	28	Dynamic Ad Hoc Networks	33
Broadband Applications and the Digital Home	33	Economic Evaluation of Projects in the Electricity Supply Industry, 3rd edition	22
Buses, Bankers & the Beer of Revenge: An eccentric engineer collection ...	37	Effective Team Leadership for Engineers	5
Channels, Propagation and Antennas for Mobile Communications.....	15	Eigenstructure Control Algorithms: Applications to aircraft/rotorcraft handling qualities design	9
Channels, Propagation and Antennas for Mobile Communications, 2nd edition.....	31	Electric Fuses, 3rd edition	23
Circuit Modeling for Electromagnetic Compatibility	15	Electric Railways, 1880-1990	37
Clean Mobility and Intelligent Transport Systems.....	16	Electrical Craft Principles Volume 1, 5th edition	18
CMOS Digital Integrated Electronics: A first course	18	Electrical Craft Principles Volume 2, 5th edition	18
CMOS Integrated Digital Electronics: A first course	36	Electrical Design for Ocean Wave and Tidal Energy Systems	23
Coaxial Electrical Circuits for Interference-Free Measurements	18	Electrical Installation Design Guide, 3rd Edition	41
Code of Practice for Cyber-Security in the Built Environment.....	47	Electrical Operation of Electrostatic Precipitators.....	23
Code of Practice for Electric Vehicle Charging Equipment Installation, 2nd edition	47	Electrical Plugs and Wiring and World Electricity Supplies	42
Code of Practice for Electrical Safety Management.....	47	Electrical Resistivity Handbook, 2nd edition	18
Code of Practice for In-Service Inspection and Testing of Electrical Equipment, 4th edition	42	Electrical Steels for Rotating Machines	23
Code of Practice for Installation of Electrical and Electronic Equipment in Ships BS 8450.....	42	Electrician's Guide to Emergency Lighting, 2nd edition	42
Code of Practice for Low Voltage Direct Current Power Distribution in Buildings.....	46	Electrician's Guide to Fire Detection and Alarm Systems, 2nd edition	42
Code of Practice for the Application of LED Lighting Systems	47	Electrician's Guide to the Building Regulations, 4th edition	41
Code of Practice for the Design, Installation and Operation of Solar Photovoltaic Systems	46	Electromagnetic Field Standards and Exposure Systems	14
Cogeneration: A user's guide	23	Electromagnetic Measurements in the Near Field, 2nd edition	15
Cognitive Radio Engineering	32	Electron-Gated Ion Channels	18
Commentary on IET Wiring Regulations 17th Edition (BS 7671:2008+A3:2015 Requirements for Electrical Installations)	41	Electronic Warfare Pocket Guide	28
Commentary on MF/1	45	EMC Pocket Guide: Key EMC facts, equations and data	15
Commentary on MF/2 (Revision 1)	45	EMI Troubleshooting Cookbook for Product Designers	14
Communications: An international history of the formative years	37	Energy Storage for Power Systems, 2nd edition	23
Complex Space Source Theory of Spatially Localized Electromagnetic Waves	15	Energy: Resources, technologies and the environment.....	23
Condition Assessment of High Voltage Insulation in Power System Equipment	23	Essentials of Electromagnetic Compatibility Engineering.....	12
		Exam Success 2382-12	44
		Exam Success Inspection and Testing 2394 and 2395	44
		Fabrication of GaAs Devices	18
		Finite Difference Time Domain for Electromagnetics, The: with MATLAB® simulations, 2nd edition	34
		Flexible Robot Manipulators: Modelling, simulation and control	9
		Foliage Penetration Radar: Detection & characterisation of objects under trees	28

Foundations of Digital Signal Processing: Theory, algorithms and hardware design	18	Lightning Protection.....	23
Frequency-Domain Control Design for High-Performance Systems	9	Local Access Network Technologies	33
Fundamentals of Electromagnetic Levitation: Engineering sustainability through efficiency	18	Local Energy: Distributed generation of heat and power	23
Fundamentals of Electromagnetics with MATLAB, 2nd edition	36	Location and Personalisation: Delivering online and mobility services	33
Fundamentals of Ground Radar for ATC Engineers and Technicians	28	Low Energy Street Lighting Specification.....	46
Fundamentals of Wave Phenomena, 2nd edition	36	Low Power and Low Voltage Circuit Design with the FGMOS Transistor	18
Further Advances in Unmanned Marine Vehicles	9	Maintaining Effective Engineering Leadership: A new dependence on effective process	5
Ground-Penetrating Radar, 2nd edition	28	Maintenance of Electrical Systems.....	46
Guidance Note 1: Selection & erection, 7th edition	39	MATLAB® for Electrical and Computer Engineering Students and Professionals: with SIMULINK®	35
Guidance Note 2: Isolation & switching, 7th edition	39	MEMS Packaging	18
Guidance Note 3: Inspection & testing, 7th edition	39	MF/1 (Revision 6) Model Form of Contract	45
Guidance Note 4: Protection against fire, 7th edition	39	MF/2 (Revision 1) Model Form of General Conditions of Contract	45
Guidance Note 5: Protection against electric shock, 7th edition	40	MF/3 (Revision 1) Model Form of General Conditions of Contract	45
Guidance Note 6: Protection against overcurrent, 7th edition	40	Microgrids and Active Distribution Networks	23
Guidance Note 7: Special locations, 5th edition	40	Microstrip and Printed Antenna Design, 2nd edition	15
Guidance Note 8: Earthing & bonding, 3rd edition	40	Microwave and RF Design: A systems approach, 2nd edition	15
Guide to Electrical Installations in Medical Locations.....	41	Microwave Measurements, 3rd edition	18
Handbook of Electrical Resistivity: New materials and pressure effects, The	18	Microwave Receivers with Electronic Warfare Applications	28
Handbook of Vehicle Suspension Control Systems	9	Mobile and Wireless Communications: Key technologies and future applications	33
High Voltage Engineering and Testing, 3rd edition	23	Model Form of Contract for the Design, Supply and Installation of Electrical, Electronic and Mechanical Plant MF/1 (Revision 6)	45
Higher Order Numerical Solution Techniques in Electromagnetics	10	Model-Based Requirements Engineering	5
How to Build Successful Business Relationships	5	Modelling and Control of Flexible Robot Manipulators.....	7
How to Design Wireless Systems	30	Modelling and Parameter Estimation of Dynamic Systems	9
Human factors for Engineers	9	Modelling Control Systems Using IEC 61499, 2nd Edition	8
Innovation and the Communications Revolution	37	Modelling Distributed Energy Resources in Energy Service Networks	23
Integral Equation Methods.....	36	Modelling Enterprise Architectures	5
Integral Equation Methods for Electromagnetics	15	Modern Filter Design: Active RC and switched capacitor	18
Intellectual Property Rights for Engineers, 2nd edition	5	Modern Radar Detection Theory.....	24
Intelligent Control Systems Using Computational Intelligence Techniques	9	Motion Vision: Design of compact motion sensing solutions for navigation of autonomous systems.....	9
Intelligent Distributed Video surveillance systems	5	Multicore Simulation of Power System Transients	23
Intelligent Networks: Principles and applications	33	Nanotechnologies	18
Internet and Wireless Security	33	Nonlinear and Adaptive Control Systems	9
Introduction to Adaptive Arrays, 2nd edition	15	Nonlinear Optimization in Electrical Engineering with Applications in MATLAB®	35
Introduction to Biomechanics	18	Nuclear Power	23
Introduction to Broadband Communication Systems	33	Numerical Analysis of Power System Transients and Dynamics	19
Introduction to Electronic Warfare Modeling and Simulation	28	Numerical Methods for Engineering: An introduction using MATLAB® and computational electromagnetics	36
Introduction to Radar Target Recognition	28	Offshore Wind Turbines: Reliability, availability and maintenance	23
Introduction to RF Stealth	28	Oliver Heaviside: Maverick mastermind of electricity	37
Introduction to Sensors for Ranging and Imaging	28	On-Chip Temperature Monitoring and Cooling Technologies	17
Inverse Synthetic Aperture Radar Imaging: Principle, algorithms and applications.....	25	On-Site Guide BS 7671:2008 +A3:2015	38
Key Enablers for User-Centric Advertising Across Next Generation Networks	33	Optical Fibers and RF: A natural combination	15
Leaky Waves in Electromagnetics.....	12	Optimal Adaptive Control and Differential Games by Reinforcement Learning Principles	9
Lean Product Development: A manager's guide	5	Periodic Control of Power Electronic Converters	19
Level 2 Diploma in Electrical Installation (C&G 2365): Buildings and structures, units 201-204 and 210	43	Phased-Array Radar Design: Application of radar fundamentals	28
Level 3 Diploma in Electrical Installation (C&G 2365): Buildings and structures, units 201, 301-5 and 308	43	Pocket Radar Guide: Key facts, equations, and data	28
Level 3 NVQ Diploma in Electrotechnical Technology (C&G 2357), units 301-304	43	Power Electronic Converters and Systems: Frontiers and applications.....	21
Level 3 NVQ Diploma in Electrotechnical Technology (C&G 2357), units 305-306	43	Power Systems Electromagnetic Transients Simulation	23
Level 3 NVQ Diploma in Electrotechnical Technology (C&G 2357), units 307-308	44	Practical Communication Theory, 2nd edition	14
Level 3 NVQ Diploma in Electrotechnical Technology (C&G 2357), unit 309	44	Principles of Modern Radar. 3-Volume set.....	27
Lightning Electromagnetics	23	Principles of Modern Radar: Advanced techniques, Volume 2	15, 27, 36
Lightning Flash, The, 2nd edition	22	Principles of Modern Radar: Basic principles, Volume 1	27, 36
		Principles of Modern Radar: Radar applications, Volume 3.....	27, 36
		Principles of Planar Near-field Antenna Measurements	15

- Principles of Space-Time Adaptive Processing, 3rd edition28
- Principles of Waveform Diversity and Design28
- Process Technology for Silicon Carbide Devices18
- Propagation of Radiowaves, 2nd edition15
- Propagation of Radiowaves, 3rd edition15
- Propulsion Systems for Hybrid Vehicles, 2nd edition16
- Protection of Electricity Distribution Networks, 3rd edition23
- Pulse Doppler Radar28
- Radar and Electronic Warfare Principles for the Non-Specialist, 4th edition26
- Radar Automatic Target Recognition (ATR) and Non-Cooperative Target Recognition (NCTR)28
- Radar Cross Section, 2nd edition28
- Radar Detection28
- Radar Essentials: A concise handbook for radar design and performance.....28
- Radar Foundations for Imaging and Advanced Concepts28
- Radar Imaging and Holography28
- Radar Micro-Doppler Signatures Processing and Applications25
- Radar Principles for the Non-Specialist, 3rd edition28
- Radar Techniques Using Array Antennas, 2nd edition28
- Radio Man: The remarkable rise and fall of C.O. Stanley37
- Recommendations for the Electrical and Electronic Equipment of Mobile and Fixed Offshore Installations42
- Recommendations for the Electrical and Electronic Equipment of Mobile and Fixed Offshore Installations incl. Supplement (2 volume set)42
- Reliability of Power Electronic Converter Systems21
- Requirements for Electrical Installations: IET Wiring Regulations 17th edition (BS 7671:2008 incorporating Amendment No. 3:2015)38
- Resilience in Wireless Networks32
- RF and Microwave Modeling and Measurement Techniques for Field Effect Transistors15
- Robust and Adaptive Model Predictive Control of Nonlinear Systems.....8
- Satellite-to-Ground Radiowave Propagation, 2nd edition.....15
- Scattering of Wedges and Cones with Impedance Boundary Conditions15
- Scenarios for a Future Electricity Supply: Cost-optimized variations on supplying Europe and its neighbours with electricity from renewable energies23
- Sea Clutter: Scattering, the K distribution and radar performance28
- Sea Clutter: Scattering, the K distribution and radar performance, 2nd edition28
- Security for Mobility33
- Semantic Content Extraction for Effective Video Analysis, Understanding and Retrieval.....4
- Sensors, Actuators and Their Interfaces: A multidisciplinary introduction ..17
- Sevick's Transmission Line Transformers: Theory and practice, 5th edition13
- Short Circuit Currents23
- Silicide Technology for Integrated Circuits18
- Silicon Wafer Bonding Technology for VLSI and MEMS Applications18
- SiMoX18
- Slotted Waveguide Array Antennas.....11
- Solar Photovoltaic Energy23
- Spacecraft Technology: The early years37
- Spectrum and Network Measurements, 2nd edition13
- Standard Codecs: Image compression to advanced video coding, 2nd edition33
- Standard Codecs: Image compression to advanced video coding, 3rd edition33
- Stepping Motors: A guide to theory and practice, 4th edition9
- Stimson's Introduction to Airborne Radar, 3rd edition25
- Strapdown Inertial Navigation Technology, 2nd edition28
- Successfully Implementing a Plug-In Electric Vehicle Infrastructure.....47
- Supplement to Recommendations for the Electrical and Electronic Equipment of Mobile and Fixed Offshore Installations42
- Switching Function: Analysis of power electronic circuits, The18
- SysML for Systems Engineering.....5
- SysML for Systems Engineering, 2nd edition: A model-based approach5
- System-On-Chip: Next generation electronics18
- Target Detection by Marine Radar28
- Technology Computer Aided Design for Si, SiGe and GaAs Integrated Circuits18
- Telecommunications Network Modelling, Planning and Design33
- Telecommunications Performance Engineering33
- Telecommunications Quality of Service Management33
- Telecommunications Regulation33
- Temporary Power Systems: A guide to the application of BS 7671 and BS 7909 for temporary events42
- Test and Diagnosis of Analogue, Mixed-Signal and RF Integrated Circuits: the system on-chip approach.....18
- Test and Evaluation of Aircraft Avionics and Weapons Systems28
- Test and Evaluation of Aircraft Avionics and Weapons Systems, 2nd edition25
- The Art of Successful Business Communication5
- The Correspondence of Michael Faraday, Volume 1: 1811-1831.....37
- The Correspondence of Michael Faraday, Volume 2: 1832-1840.....37
- The Correspondence of Michael Faraday, Volume 3: 1841-1848.....37
- The Correspondence of Michael Faraday, Volume 4: 1849-1855.....37
- The Correspondence of Michael Faraday, Volume 5: 1855-1860.....37
- The Correspondence of Michael Faraday, Volume 6: 1860-186737
- The Finite Difference Time Domain for Electromagnetics: With MATLAB® simulations, 2nd edition10
- The Struggle for Unity: Colour television, the formative years37
- Theory and Practice of Modern Antenna Range Measurements13
- Theory of Edge Diffraction in Electromagnetics15
- Thermal Microwave Radiation: Applications for remote sensing15
- Thermal Power Plant Simulation and Control23
- Tracking Filter Engineering28
- Transceiver and System Design for Digital Communications, 3rd edition ...33
- Transceiver and System Design for Digital Communications, 4th edition ..17
- Trusted Computing5
- Trusted Platform Modules: Why, when and how to use them4
- Ultracapacitor Applications23
- UML for Systems Engineering: Watching the wheels, 2nd edition5
- Understandable Electric Circuits18
- Understanding Telecommunications Business31
- Understanding Telecommunications Networks33
- VALU, AVX and GPU Acceleration Techniques for Parallel FDTD Methods ...5
- Variable Structure Systems: From principles to implementation9
- Vehicle-to-Grid: Linking electric vehicles to the smart grid16
- Video Compression Systems: From first principles to concatenated codecs33
- Voice Over LTE (VoLTE): Convergence of LTE and IMS.....30
- Waveform Design and Diversity for Advanced Radar Systems28
- Weiner-Hopf Method in Electromagnetics, The14
- Wide Area Monitoring of Interconnected Power Systems.....20
- Wideband Amplifier Design18
- Wind Power Integration: Connection and system operational aspects2
- Wind Power Integration: Connection and system operational aspects.....2
- Wireless Communications Circuits and Systems18
- Wireless Receiver Design for Digital Communications, 2nd edition33
- Wood Pole Overhead Lines23



ABOUT THE IET

The IET is Europe's largest professional body of engineers with almost 160,000 members in 127 countries. It offers a range of services and resources to the engineering community including an extensive publishing programme. For the research community, the IET publishes a portfolio of research, letters and open access journals and over 400 eBooks; all located within the dynamic and market-leading IET Digital Library. IET Inspec, a highly respected A&I database with c. 15 million abstracts from a range of international publishers and IET.tv, the world's largest online archive of engineering and technology video content are also available to support and develop engineering excellence.

The Institution of Engineering and Technology is registered as a Charity in England & Wales (no. 211014) and Scotland (no. SC038698). IET, Michael Faraday House, Six Hills Way, Stevenage, Hertfordshire, SG1 2AY. UK.

E7F14007/9000/0914 (MCATB015)

www.theiet.org/books