Statics and Strength of Materials for Architecture and

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Insstructor's Manual to accompany

Statics and Strength of Materials For Architecture and Building Construction

Fourth Edition

Barry S. Onouye



Upper Saddle River, New Jersey Columbus, Ohio

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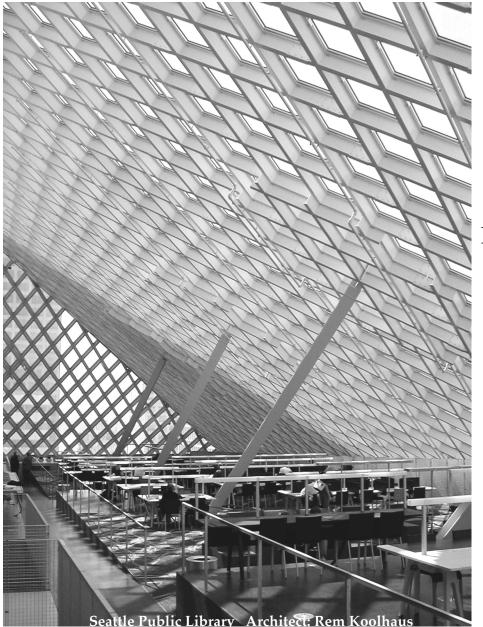
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Statics and Strength of Materials

For Architecture and Building Construction

Fourth Edition

Barry Onouye

Pearson/Prentice Hall

Upper Saddle River, New Jersey Columbus, Ohio

Preface

This Instructor's Manual is intended to accompany Statics and Strength of Materials for Architecture and Building Construction.

It was initially developed as a study guide for students to practice on a variety of problems to enhance their understanding of the principles covered in the text. Solutions were developed in sufficient detail to allow students to use these problems as additional example problems.

Although the problem solutions contained in this Instructor's Manual have been worked, re-worked, checked and scrutinized by my many students over the years, there are inevitably errors that remain to be discovered by others using the book. If you detect discrepancies, omissions and errors as you work through these problems, I would appreciate hearing from you so that I can incorporate the changes for any future editions of the Instructor's Manual or book.

I realize that many instructors do not allow student's access to the Instructor's Manual but I have personally found that my students appreciated having it as a study guide.

Fall, 2010

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Table of Contents

Chapter 2 Statics

 Graphical addition of vectors 	pg 2.1 - 2.2
 Resolution of forces: x and y components 	pg 2.2 - 2.3
 Vector addition by components 	pg 2.3 - 2.6
Moment of a force	pg 2.6 - 2.7
 Varignon's theorem 	pg 2.7 – 2.8
Moment couples	pg 2.9
 Equilibrium of concurrent forces 	pg 2.10 – 2.13
 Equilibrium of rigid bodies 	pg. 2.13 – 2.16
 Supplementary problems 	pg 2.16 – 2.26

Chapter 3 Analysis of Determinate Systems

 Cables with concentrated loads 	pg 3.1 – 3.3
 Equilibrium of rigid bodies with distributed 	
loads	pg 3.4 – 3.5
 Planar trusses – method of joints 	pg 3.6 – 3.8
 Truss analysis – method of sections 	pg 3.8 – 3.10
 Diagonal tension counters 	pg 3.10 – 3.12
Zero-force members	pg 3.12
 Pinned frames – multi-force members 	pg 3.13 – 3.15
 Supplementary problems 	pg 3.16 – 3.28
Retaining walls	pg 3.29 – 3.32

Chapter 4 Load Tracing

 Gravity load trace 	pg 4.1 – 4.8
Lateral load trace	pg 4.8 – 4.11

Chapter 5 Strength of Materials

 Tension, Compression and shear stress 	pg 5.1 – 5.2
 Deformation and strain 	pg 5.3
 Elasticity, strength and deformation 	pg 5.3 – 5.4
 Thermal stress and deformation 	pg. 5.4 – 5.5
 Statically indeterminate, axially loaded 	
members	pg 5.5 – 5.6

Chapter 6 Cross-Sectional Properties

Centroids	pg 6.1 – 6.3
 Moment of inertia 	pg 6.3 – 6.7
 Moment of inertia for composite sections 	pg 6.7 – 6.9

Chapter 7 Bending and Shear Diagrams

 Equilibrium method for shear and moment 	
diagrams	pg 7.1 – 7.4
 Semi-graphical method for shear and 	
moment diagrams	pg 7.5 – 7.10

Chapter 8 Bending and Shear Stress in Beams

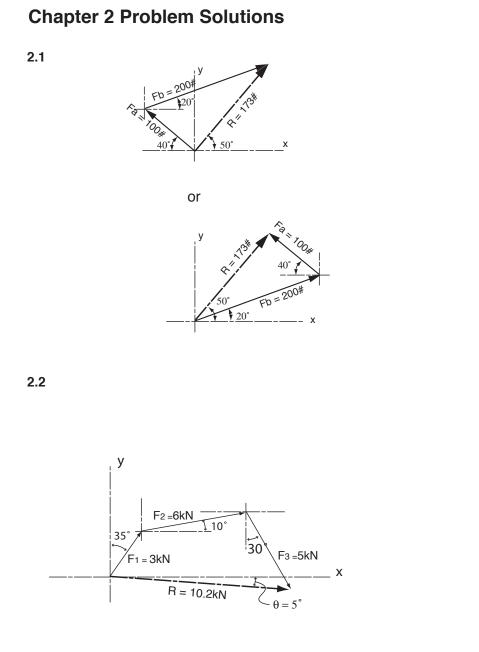
Bending stress	pg 8.1 – 8.5
 Bending and shear stresses 	pg 8.6 – 8.12
Deflection in Beams	pg 8.13 – 8.15

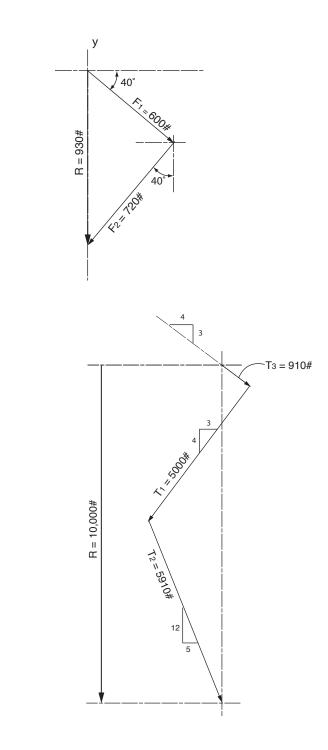
Chapter 9 Column Analysis and Design

 Euler buckling loads and stresses 	pg 9.1 – 9.2
 Axially loaded steel columns - analysis 	pg 9.3 – 9.4
 Design of steel columns 	pg 9.5 – 9.6
 Axially load wood columns 	pg 9.6 – 9.9

Chapter 10 Structural Connections

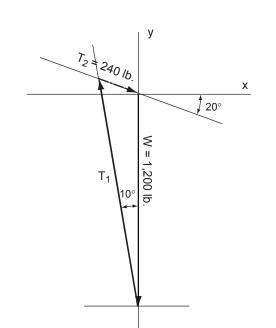
 Bolted steel connections 	pg 10.1 – 10.3
Framed connections	pg 10.3
Welded connections	pg 10.4 – 10.5



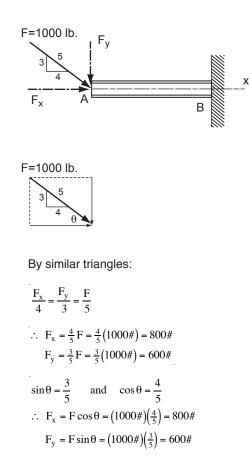


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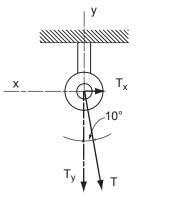
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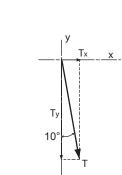


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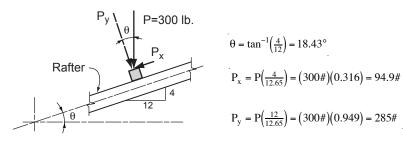




 $T_v = T \cos 10^\circ$

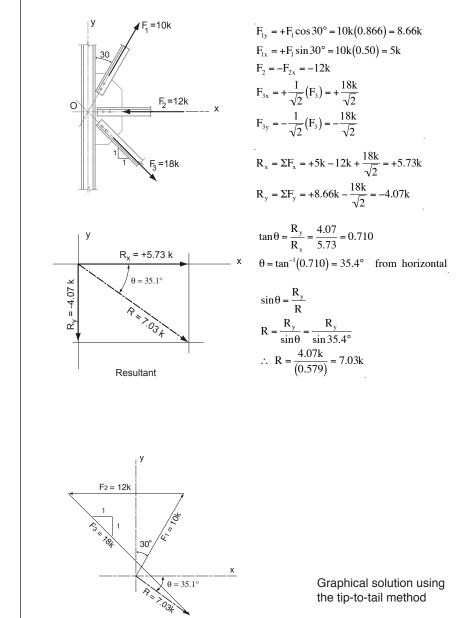
 $\therefore T = \frac{T_y}{\cos 10^\circ} = \frac{250N}{0.985} = 254N$

2.8



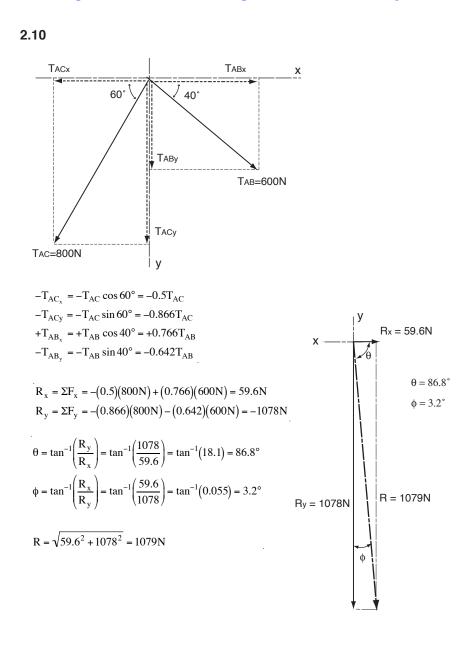
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2.10 cont'd

Graphical Solution:

