## **ANSYS** Tutorial

Slides to accompany lectures in **Vibro-Acoustic Design in Mechanical Systems** © 2012 by D. W. Herrin Department of Mechanical Engineering University of Kentucky Lexington, KY 40506-0503 Tel: 859-218-0609 dherrin@engr.uky.edu

















































Modal/Harn	nonic Analysis Using ANSYS	
n > Analysis Type > F	Expansion Pass	
	-xpansion Fass	
▲ Expansion Pass		
[EXPASS] Expansion pass	[▼ [On	
Reduced Order Model Expansion?	∏ No	
ОК	Cancel Help	

Modal/Harr Solution > Load Step Opts Single Expand > Range of	nonic Analys > Expansion Solu' s	is Using AN Pass >	1572
Expand A Range of Solutions  IN MEXPL Expand A Range of Solutions			
NUM Number of solu to expand (Enter ALL to expand all in the time or freq range)	100	Important -	- if yes the files are huge
BEGRINS Beginning time (or freq) ENDRINS Ending time (or freq) Elcale Calculate elem results?	0 50 ¬ No		
[HREXP] Phase angle (degrees) - - for hermonic analysis (Enter ALL to expand both real and imaginary par	ALL (state)		
K	Cancel	Help	
Solution > Solve > Current	LS		







