



IFS Academy

Training for the future!!!

ANSYS Advanced Dynamic Analysis Course Curriculum

Chapter 1: Introduction

- A. Definition & Purpose
- B. Types of Dynamic Analysis
- C. Basic Concepts and Terminology
- D. Variable Viewer
- E. Workshop - Introductory Workshop

Chapter 2: Modal Analysis

- A. Definition & Purpose
- B. Terminology & Concepts
- C. Procedure
- D. Workshop - Modal Analysis

Chapter 3: Harmonic Analysis

- A. Definition & Purpose
- B. Terminology & Concepts
- C. Procedure
- D. Workshop - Harmonic Analysis

Chapter 4: Transient Dynamic Analysis

- A. Definition & Purpose
- B. Terminology & Concepts
- C. Procedure
- D. Workshop - Transient Analysis

Chapter 5: Restarting an Analysis

- A. Definition & Purpose

- B. Procedure
- C. Other Restart Options
- D. About Restart Files
- E. Workshop - Restarting an Analysis

Chapter 6: Spectrum Analysis

- A. Definition & Purpose
- B. Terminology & Concepts
- C. Procedure
- D. Spectrum Analysis Guidelines
- E. Workshop – Response Spectrum
- F. Random Vibration Analysis
- G. Workshop – Random Vibration

Chapter 7: Mode Superposition

- A. Definition & Purpose
- B. Procedure
- C. Workshop - Mode Superposition

Chapter 8: Modal Analysis (Advanced Topics)

- A. Prestressed Modal Analysis
- B. Workshop – Pre-Stressed Modal
- C. Modal Cyclic Symmetry
- D. Workshop – Modal Cyclic Symmetry
- E. Large Deflection Modal Analysis
- E. Workshop – Component Mode Synthesis

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