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**Engineering Mechanics—Statics—Chapter 7**

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Engineering Mechanics is a course taught in the very first year of under graduate curriculum and in this the student develops capability to model an actual problem into an engineering problem and finds the solution using laws of mechanics.

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MEM202 Engineering Mechanics - Statics MEM 7.2 Plane Trusses Method of Joints 1. Draw a free-body diagram of the entire structure and determine the reactions ( $f = 3$ ). 2. Draw free-body diagrams for all members (assume tensile forces in all members) and all joints. 3. Set up the equilibrium equations for each joint and

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Known for its accuracy, clarity, and dependability, Meriam and Kraige's Engineering Mechanics: Statics Seventh Edition has provided a solid foundation of mechanics principles for more than 60 years. Now in its seventh edition, the text continues to help students develop their problem-solving skills with an extensive variety of engaging problems related to engineering design. More than 50% of the homework problems are new, and there are also a number of new sample problems. To help students build necessary visualization and problem-solving skills, the text strongly emphasizes drawing free-body diagrams-the most important skill needed to solve mechanics problems.

The Statics Study Pack was designed to help students improve their study skills. It consists of three study components(a chapter-by-chapter review, a free-body diagram workbook, and an access code for the Companion Website.

Engineering Mechanics: Combined Statics & Dynamics, Twelfth Editionis ideal for civil and mechanical engineering professionals. In his substantial revision ofEngineering Mechanics, R.C. Hibbeler empowers students to succeed in the whole learning experience. Hibbeler achieves this by calling on his everyday classroom experience and his knowledge of how students learn inside and outside of lecture. In addition to over 50% new homework problems, the twelfth edition introduces the new elements ofConceptual Problems,Fundamental ProblemsandMasteringEngineering, the most technologically advanced online tutorial and homework system.

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Lectures on Engineering Mechanics: Statics and Dynamics is suitable for Bachelor's level education at schools of engineering with an academic profile. It gives a concise and formal account of the theoretical framework of elementary Engineering Mechanics. A distinguishing feature of this textbook is that its content is consistently structured into postulates, definitions and theorems, with rigorous derivations. The reader finds support in a wealth of illustrations and a cross-reference for each deduction. This textbook underscores the importance of properly drawn free-body diagrams to enhance the problem-solving skills of students. Table of contents I. STATICS . . . 1. Introduction . . . 2. Force-couple systems . . . 3. Static equilibrium . . . 4. Center of mass . . . 5. Distributed and internal forces . . . 6. Friction II. PARTICLE DYNAMICS . . . 7. Planar kinematics of particles . . . 8. Kinetics of particles . . . 9. Work-energy method for particles . . . 10. Momentum and angular momentum of particles . . . 11. Harmonic oscillators III. RIGID BODY DYNAMICS . . . 12. Planar kinetics of rigid bodies . . . 13. Planar kinetics of rigid bodies . . . 14. Work-energy method for rigid bodies . . . 15. Impulse relations for rigid bodies . . . 16. Three-dimensional kinematics of rigid bodies . . . 17. Three-dimensional kinetics of rigid bodies APPENDIX . . . A. Selected mathematics . . . B. Quantity, unit and dimension . . . C. Tables

Engineering mechanics involves the development of mathematical models of the physical world. Statics addresses the forces acting on and in mechanical objects and systems. Statics with MATLAB® develops an understanding of the mechanical behavior of complex engineering structures and components using MATLAB® to execute numerical calculations and to facilitate analytical calculations. MATLAB® is presented and introduced as a highly convenient tool to solve problems for theory and applications in statics. Included are example problems to demonstrate the MATLAB® syntax and to also introduce specific functions dealing with statics. These explanations are reinforced through figures generated with MATLAB® and the extra material available online which includes the special functions described. This detailed introduction and application of MATLAB® to the field of statics makes Statics with MATLAB® a useful tool for instruction as well as self study, highlighting the use of symbolic MATLAB® for both theory and applications to find analytical and numerical solutions

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