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Instructor Resources Student Resources Printed No 64.99 Buy e-book 47.50 Buy Now you can teach rigorously, complete and integrated processing of two major subject areas in engineering mechanics - static and materials mechanics - with Goodno/Gere STATICS and MECHANICS MATERIALS, 1st edition. This full text will help you create a solid foundation for further study of mechanics for mechanical, structural, civil, biomedical, oil, nuclear, aeronautical and aerospace engineering students. The authors present numerous practical problems based on real structures, emphasizing information through modern graphics, photographs and detailed drawings of free body diagrams. All examples of problems and problems associated with the end of the chapter follow a systematic four-step approach to problem-solving. Students will gain a deeper understanding and skill in creating, developing effective analytical models, and then solving various mechanics problems as they pass through text. PART I: STATIC. Introduction. The goals of the chapter. Fundamental concepts: rigid and deformable bodies. Newton's laws; the law of gravity. Scalars and vectors. Unit and conversion rate systems. Precision, approximation and significant numbers. Using a problem-solving approach. Chapter Summary and Review. Problems 2. Strength, moments, results. The goals of the chapter. Forces: 2D, 3D, Moments and pairs: 2D, 3D. Chapter summary and review. Problems. 3. Balance of particles and rigid bodies: 2D, 3D. Head goals, Fries body diagrams. Balance in 2D and 3D. Dry friction. Chapter Summary and Review. Problems. Structural applications. The goals of the chapter. Acquaintance. Plane Trains: Space routes. Footage and cars. Chapter Summary and Review. Problems. 5. Centroids, Mass Center, Moments of Inertia. The goals of the chapter. Acquaintance. Centroids of districts, lines and volumes. Centroids composite bodies. Pappus's theorems. Moments of inertia of flat areas and composite areas. 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Buckling and stability. Columns with other support conditions. Columns with eccentric loads. The secant formula for the columns. Chapter Summary and Review. Problems. Annex A: Mathematical formulas. Appendix B: Flat zone properties. Appendix C: Properties of structural forms of steel. Appendix D: Structural Lumber Properties. Appendix E: Materials Properties. Answers to problems. Index. PHOTOGRAPHS AND ILLUSTRATIONS EMPHASIZE PRACTICAL ENGINEERING. Bright visuals throughout this edition underline the importance of the subject as the authors turn to a wide range of engineering disciplines.4-STEP THE APPROACH DIVIDES AND ADDRESSES THE PRACTICAL PROBLEMS OF THE EXAMPLE. The approximate problem solutions demonstrate a four-step approach to problem-solving that analyzes and analyzes the problem. Students learn to study the results to make sure that thCONTENT PROVIDES EXCELLENT PREPARATION FOR FE EXAMS. More than 150 FE-type review issues, focused on both static and materials mechanics, are presented in a separate application. These problems are representative of those who appear in past FE exams and cPRACTICAL EXAMPLES DRAW ON REAL WORLD ISSUES. Realistic examples help students easily understand new and difficult concepts. These issues increase student interest and demonstrate how the basic principles of practical engineering can provide HOMEWORK MANAGEMENT SYSTEM SYSTEM MANAGEMENT SYSTEM HELP DIRECT AND ORGANIZE STUDENT PRACTICE. This useful homework management system offers more ease of use, flexibility, and control than other similar books. The complete solutions to more than 1,200 end chapter problems are presentCLEAR AND ENGAGING RESIC CLARIFY CONCEPTS. Interesting, relevant and student-friendly examples guide students as they learn and practice the principles of static and materials mechanics. TEACHING FEATURES GUIDE STUDENTS TO REVIEW AND STUDY. Each chapter begins with a clear and concise list of chapter goals and concludes with a summary of the chapter and a review of key formulas, illustrations, and conclusions. These valuable tutorials help students of Barry J. Goodno Georgia Institute of Technology Barry John Goodno is a professor of civil and environmental engineering at the Georgia Institute of Technology. He enrolled in Georgia Tech in 1974. He was a Evans Scholar and received a bachelor's degree in civil engineering from the University of Wisconsin, Madison, as well as a master's and Ph.D. in structural engineering from Stanford University. He holds a Professional Engineering License (P.E.) in Georgia, is an honored asce member and inaugural member of SEI and has held numerous leadership positions at ASCE. He is a member of as THECE Institute of Mechanical Engineering (EMI) and former president of the Board of Governors of the ASCE Institute of Structural Engineering (SEI). He has also previously chaired the Executive Committee of the Technical Activities Division of ASCE-SEI (TAD) and formerly Chairman of the ASCE-SEI Awards Committee. In 2002, Dr. Goodno received the Dennis L. Tewbury SEI Award for Outstanding Services to ASCE-SEI. He received a departmental award for leadership in the use of technology in 2013 for his pioneering use of technology capturing lectures in the Undergraduate Static and Materials Mechanics courses at Georgia Tech. Dr. Goodno is also a member of the Earthquake Engineering Research Institute (EERI) and held senior positions at the NSF-funded Mid-America Earthquake Center (MAE), directing the MAE Memphis Test Bed Dr. Goodno conducted research, taught postgraduate studies and was widely published in the field of seismic engineering and dynamics during his time at Georgia Tech. As co-author and mentor of James Gere, he completed numerous marathons, including qualifying and running the Boston Marathon in 1987. James Gere Emeritus Professor of Civil Engineering, Stanford University, California James Monroe Gere was Professor emeritus of civil engineering at Stanford University. In 1949 and 1951 he received a bachelor's and master's degree in civil engineering from the Rensselaer Polytechnic Institute, respectively. Dr. Gere worked as an instructor and later researcher at Rensselaer from 1949 to 1952. He was awarded one of the first NSF scholarships and decided to study at Stanford. He received his doctorate in 1954 and earned a teaching position in civil engineering, beginning a 34-year career engaging his students in complex topics in mechanics, structural and earthquake engineering. He served as chair and associate dean of engineering and in 1974 co-founded the John A. Blum Earthquake Engineering Center at Stanford. Dr. Gere retired from Stanford in 1998, but continued to give his time to advise students. Since 1972, he has authored nine textbooks on various engineering subjects. The authors are doing a good job of introducing terminology, concepts and techniques gradually, and backing them up with examples to reinforce the concept... The examples of problems are numerous and well-chosen. Explanations of their solution are complete, if sometimes a little lengthy ... The graphics are well thought out and appropriate. The audience is recognized, the pace is good, and the examples are appropriate and relativistic... There is good breadth and depth in content and challenge, with a good mix of theoretical and practical content. Materials Mechanics, Advanced, SI Edition, 9th Edition Principles of Basic Engineering, SI Edition, 9th Edition Of Materials Mechanics, SI Edition, 9th Edition of the Book. Introduction to Mechanical Engineering, SI Edition, 3rd Edition of The Basics of Mechatronics, SI Edition, 1st Edition Of Liquids SI Version, 4th Edition eBook: Metronics Design, 2nd Edition

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