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examples and solve problems. Apart from the Fundamental and Conceptual type problems mentioned previously, other types of problems contained in the book include the following: Some sections of the book contain introductory problems that only require drawing the free-body diagram for the specific problems within a problem set. These assignments will impress upon the student the importance of mastering this skill as a requirement for a complete solution of any equilibrium problem. The majority of problems in the book depict realistic situations encountered in engineering practice. Some of these problems come from actual products used in industry. Furthermore, in any set, an attempt has been made to arrange the problems in order of increasing difficulty except for the end of chapter review problems, which are presented in random order. An effort has been made to include some problems that may be solved using a numerical procedure executed on either a desktop computer or a programmable pocket calculator. The many homework problems in this edition, have been placed into two different categories. Problems that are simply indicated by a problem number have an answer and in some cases an additional numerical result given in the back of the book. As with the previous editions, apart from the author, the accuracy of the text and problem solutions has been thoroughly checked by four other parties: In a general sense, each principle is applied first to a particle, then a rigid body subjected to a coplanar system of forces, and finally to three-dimensional force systems acting on a rigid body. Chapter 1 begins with an introduction to mechanics and a discussion of units. The vector properties of a concurrent force system are introduced in Chapter 2. This theory is then applied to the equilibrium of a particle in Chapter 3. Chapter 4 contains a general discussion of both concentrated and distributed force systems and the methods used to simplify them. The principles of rigid-body equilibrium are developed in Chapter 5 and then applied to specific problems involving the equilibrium of trusses, frames, and machines in Chapter 6, and to the analysis of internal forces in beams and cables in Chapter 7. Applications to problems involving frictional forces are discussed in Chapter 8, and topics related to the center of gravity and centroid are treated in Chapter 9. Most of these topics are included in Chapter 10 area and mass moments of inertia and Chapter 11 virtual work and potential energy. Note that this material also provides a suitable reference for basic principles when it is discussed in more advanced courses. Finally, Appendix A provides a review and list of mathematical formulas needed to solve the problems in the book. At the discretion of the instructor, some of the material may be presented in a different sequence with no loss of continuity. For example, it is possible to introduce the concept of a force and all the necessary methods of vector analysis by first covering Chapter 2 and Section 4. Then after covering the rest of Chapter 4 force and moment systems , the equilibrium methods of Chapters 3 and 5 can be discussed. Dynamics The book is divided into 11 chapters, in which the principles are first applied to simple, then to more complicated situations. The kinematics of a particle is discussed in Chapter 12, followed by a discussion of particle kinetics in Chapter 13 Equation of Motion , Chapter 14 Work and Energy , and Chapter 15 Impulse and Momentum. A similar sequence of presentation is given for the planar motion of a rigid body: If time permits, some of the material involving three-dimensional rigid-body motion may be included in the course. The kinematics and kinetics of this motion are discussed in Chapters 20 and 21, respectively. Chapter 22 Vibrations may Preface be included if the student has the necessary mathematical background. Finally, Appendix A provides a list of mathematical formulas needed to solve the problems in the book, Appendix B provides a brief review of vector analysis, and Appendix C reviews application of the chain rule. Acknowledgments The author has endeavored to write this book so that it will appeal to both the student and instructor. Through the years, many people have helped in its development, and I will always be grateful for their valued suggestions and comments. Specifically, I wish to thank all the individuals who have contributed their comments relative to preparing the fourteenth edition of this work, and in particular, R. Bankhead of Highline Community College, K. Freeman of the University of Alabama, A. Itani of the University of Nevada, Y. Laio of Arizona State University, H. 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Description. In his substantial revision of Engineering 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.

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