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foundation in underlying physics principles with a consistent

method of problem solving.

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For courses in Statics and Dynamics offered by Engineering Technology Departments. This introduction to applied mechanics combines a straightforward, readable foundation in underlying physics principles with a consistent method of problem solving that strips a problem to essentials and solves it in a logical, organized manner. It presents the physics principles in small elementary steps; keeps the mathematics at a reasonable level (algebra, trigonometry and geometry are used); provides an abundance of worked examples; and features problems that are as practical as possible without becoming too involved with many extraneous details.

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This is the more practical approach to engineering mechanics that deals mainly with two-dimensional problems,

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since these comprise the great majority of engineering situations and are the necessary foundation for good design practice. The format developed for this textbook, moreover, has been devised to benefit from contemporary ideas of problem solving as an educational tool. In both areas dealing with statics and dynamics, theory is held apart from applications, so that practical engineering problems, which make use of basic theories in various combinations, can be used to reinforce theory and demonstrate the workings of static and dynamic engineering situations. In essence a traditional approach, this book makes use of two-dimensional engineering drawings rather than pictorial representations. Word problems are included in the latter chapters to encourage the student's ability to use verbal and graphic skills interchangeably. SI units are employed throughout the text. This concise and economical presentation of engineering mechanics has been classroom tested and should prove to be a lively and challenging basic textbook for two one-semester courses for students in mechanical and civil engineering. Applied Engineering Mechanics: Statics and Dynamics is equally suitable for students in the second or third year of four-year engineering technology programs.

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