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engineering, and he currently serves as Professor of Engineering Science and Mechanics at Virginia Polytechnic Institute and State University. During the mid 1970s, I had the singular pleasure of chairing Professor Kraige's graduate committee and take particular pride in the fact that he was the first of my forty-five Ph.D. graduates.

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mechanics is used extensively to design power Rigid body generation and transmission systems, from jet engines, to the internal combustion engine, to gearboxes. A typical problem is to convert rotational motion to linear motion, and vice-versa.

~~Chapter 6 Rigid Body Dynamics — Brown University~~ Problem Sets. There will be two types of problem sets, one for the dynamics part and one for the MATLAB part. Dynamics problem sets will typically be assigned on Mondays and due the next Monday. They are available in the assignments section. To receive credit, problem sets must be handed in at the beginning of class on the due date.

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Engineering Mechanics: Dynamics provides a solid foundation of mechanics principles and helps 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, this product strongly emphasizes drawing free-body diagrams, the most important skill needed to solve mechanics problems.

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This textbook introduces the fundamental concepts and practical applications in dynamics. Learning tools include problem sets, developmental exercises, key-concept lists, and a basic mathematics review. IBM software (with simultaneous equations solver) enables problem-solving with a computer. See also following entry. Annotation copyrighted by Book News, Inc., Portland, OR

Engineering mechanics is one of the fundamental

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branches of science that is important in the education of professional engineers of any major. Most of the basic engineering courses, such as mechanics of materials, fluid and gas mechanics, machine design, mechatronics, acoustics, vibrations, etc. are based on engineering mechanics courses. In order to absorb the materials of engineering mechanics, it is not enough to consume just theoretical laws and theorems—a student also must develop an ability to solve practical problems. Therefore, it is necessary to solve many problems independently. This book is a part of a four-book series designed to supplement the engineering mechanics courses. This series instructs and applies the principles required to solve practical engineering problems in the following branches of mechanics: statics, kinematics, dynamics, and advanced kinetics. Each book contains between 6 and 8 topics on its specific branch and each topic features 30 problems to be assigned as homework, tests, and/or midterm/final exams with the consent of the instructor. A solution of one similar sample problem from each topic is provided. This first book contains seven topics of statics, the branch of mechanics concerned with the analysis of forces acting on construction systems without an acceleration (a state of the static equilibrium). The book targets the undergraduate students of the sophomore/junior level majoring in science and engineering.

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