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Applied Mechanics for Engineers, Volume 1 provides an introduction to mechanics applied to engineering. The worked examples correspond to the first year of the Ordinary National Certificate in Engineering, which are supported with theories discussed in this book. The calculations in this text have all been made with the assistance of a slide rule and it is recommended that the reader acquire a slide rule to make full use of this publication. The topics covered include forces and moments; beams, shear force, and bending moment diagrams; velocity and acceleration; friction; and work, power, and energy. The gas laws; vapors, steam-engine, and boiler; and internal combustion engines are also deliberated in this text. This volume is valuable to engineering students, as well as researchers conducting work on applied mechanics.

Featuring a non-calculus approach, this introduction to applied mechanics book combines a straightforward, readable foundation in underlying physics principles with a consistent method of problem solving. It presents the physics principles in small elementary steps; keeps the mathematics at a reasonable level; provides an abundance of worked examples; and features problems that are as practical as possible without becoming too involved with many extraneous details. This edition features 7% more problems, an enhanced layout and design and a logical, disciplined approach that gives readers a sound background in core statics and dynamics competencies. The volume addresses forces, vectors, and resultants, moments and couples, equilibrium, structures and members, three-dimensional equilibrium, friction, centroids and center of gravity, moment of inertia, kinematics, kinetics, work, energy, and power and impulse and momentum. For those interested in an introduction to applied mechanics.

This text surveys the mathematical foundations of applied mechanics. The sections on engineering mathematics covers simultaneous algebraic and differential equations, matrix algebra, the theory of optimization and the calculus of variations. Considerable attention is also paid to engineering applications in theoretical thermodynamics, strength of materials ang Lagrangian-Hamiltonian dynamics. The unifying themes of the text are the mathematical foundations, work-energy principles and the Legendre transform. The only prerequisite is the background in mathematics and physics typical of the advanced-undergraduate in engineering.

Applied Mechanics and Civil Engineering VI includes the contributions to the 6th International Conference on Applied Mechanics and Civil Engineering (AMCE 2016, Hong kong, China, 30-31 December 2016), and showcases the challenging developments in the areas of applied mechanics, civil engineering and associated engineering practice. The book covers a wide variety of topics: - Applied mechanics and its applications in civil engineering; - Bridge engineering; - Underground engineering; - Structural safety and reliability; - Reinforced concrete (RC) structures; - Rock mechanics and rock engineering; - Geotechnical in-situ testing & monitoring; - New construction materials and applications; - Computational mechanics; - Natural hazards and risk, and - Water and hydraulic engineering. Applied Mechanics and Civil Engineering VI will appeal to professionals and academics involved in the above mentioned areas, and it is expected that the book will stimulate new ideas, methods and applications in ongoing civil engineering advances.

This is the more practical approach to engineering mechanics that deals mainly withtwo-dimensional problems, since these comprise the great majority of engineering situationsand are the necessary foundation for good design practice. The format developedfor this textbook, moreover, has been devised to benefit from contemporary ideas ofproblem solving as an educational tool. In both areas dealing with statics and dynamics,theory is held apart from applications, so that practical engineering problems, whichmake use of basic theories in various combinations, can be used to reinforce theoryand demonstrate the workings of static and dynamic engineering situations.In essence a traditional approach, this book makes use of two-dimensional engineeringdrawings rather than pictorial representations. Word problems are included in the latterchapters 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 classroomtested and should prove to be a lively and challenging basic textbook for two onesemestercourses for students in mechanical and civil engineering. Applied EngineeringMechanics: Statics and Dynamics is equally suitable for students in the second or thirdyear of four-year engineering technology programs.

In the last decade, the number of complex problems facing engineers has increased, and the technical knowledge required to address and mitigate them continues to evolve rapidly. These problems include not only the design of engineering systems with numerous components and subsystems, but also the design, redesign, and interaction of social, politic

For upper-level undergraduates and graduate students: an introduction to the fundamentals of quantum mechanics, emphasizing aspects essential to an understanding of solid-state theory. Numerous problems (and selected answers), projects, exercises.