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Mechanical Engineering is defined nowadays as a discipline“which involves the application of principles of physics,design, manufacturing and maintenance of mechanical systems”.Recently, mechanical engineering has also focused on sometcutting-edge subjects such as nanomechanics and nanotechnology,mechatronics and robotics, computational mechanics, biomechanics,alternative energies, as well as aspects related to sustainablemechanical engineering. This book covers mechanical engineering higher education with particular emphasis on quality assurance and the improvement ofacademic institutions, mechatronics education and the transfer ofknowledge between university and industry.

With a focus on electromechanical systems in a variety of fields, this accessible introductory text brings you coverage of the full range of electrical mechanical devices used today. You'll gain a comprehensive understanding of the design process and get valuable insights into good design practice. UNDERSTANDING ELECTROMECHANICAL ENGINEERING will be of interest to anyone in need of a non-technical, interdisciplinary introduction to the thriving field of mechatronics.

This textbook is ideal for mechanical engineering students preparing to enter the workforce during a time of rapidly accelerating technology, where they will be challenged to join interdisciplinary teams. It explains system dynamics using analogies familiar to the mechanical engineer while introducing new content in an intuitive fashion. The fundamentals provided in this book prepare the mechanical engineer to adapt to continuous technological advances with topics outside traditional mechanical engineering curricula by preparing them to apply basic principles and established approaches to new problems. This book also: · Reinforces the connection between the subject matter and engineering reality · Includes an instructor pack with the online publication that describes in-class experiments with minimal preparation requirements · Provides content dedicated to the modeling of modern interdisciplinary technological subjects, including opto-mechanical systems, high-speed manufacturing equipment, and measurement systems · Incorporates MATLAB® programming examples throughout the text · Incorporates MATLAB® examples that animate the dynamics of systems

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This book is essential reading for the students of Mechanical Engineering. It is a rich blend of theoretical concepts and neat illustrations with footnotes and a list of formulae for ready referenceKey Features:" Step-by-Step approach to help students

Mechanical Engineer's Data Handbook provides a comprehensive yet concise set of information relevant in the practice of mechanical engineering. The book is comprised of eight chapters that cover the main disciplines of mechanical engineering. The text first details the strengths of materials, and then proceeds to discussing applied mechanics. Next, the book talks about thermodynamics and fluid mechanics. The fifth chapter presents manufacturing technology, which includes cutting tools, metal forming processes, and soldering and brazing. The next two chapters deal with engineering materials and measurements, respectively. The last chapter of the text presents general data, such as units, symbols, and fasteners. The book will be most useful to students and practitioners of mechanical engineering.

