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Fundamentals of Magnonics CRC Press

Fundamentals of Magnonics is a textbook for beginning graduate students in the areas of magnetism and spintronics. The level of presentation assumes only basic knowledge of the origin of magnetism and electromagnetism, and quantum mechanics. The book utilizes elementary mathematical derivations, aimed mainly at explaining the physical concepts involved in the phenomena studied and enabling a deeper understanding of the experiments presented. Key topics include the basic phenomena of ferromagnetic resonance in bulk materials and thin films, semi-classical theory of spin waves, quantum theory of spin waves and magnons, magnons in antiferromagnets, parametric excitation of magnons, nonlinear and chaotic phenomena, Bose-Einstein condensation of magnons, and magnon spintronics. Featuring end-of-chapter problem sets accompanied by extensive contemporary and historical references, this book provides the essential tools for any graduate or advanced undergraduate-level course of studies on the emerging field of magnonics.

Simply Management John Wiley & Sons

Manufacturing Engineering Education includes original and unpublished chapters that develop the applications of the manufacturing engineering education field. Chapters convey innovative research ideas that have a prodigious significance in the life of academics, engineers, researchers and professionals involved with manufacturing engineering. Today, the interest in this subject is shown in many prominent global institutes and universities, and the robust momentum of manufacturing has helped the U.S. economy continue to grow throughout 2014. This book covers manufacturing engineering education, with a special emphasis on curriculum development, and didactic aspects. - Includes original and unpublished chapters that develop the applications of the manufacturing engineering education principle - Applies manufacturing engineering education to curriculum development - Offers research ideas that can be applied to the work of academics, engineers, researchers and professionals
Rail Infrastructure Noise Guideline Institution of Civil Engineers

The integration of sustainability in engineering education is a relatively new phenomenon, and presenting information about engineering education for sustainability is of great interest to improve communication between professors, researchers and students at universities, institutes and research laboratories.

ICE Manual of Bridge Engineering Routledge

Australia has some of the world's largest and most labor-efficient farms, and tractors are an essential part of their operations. The average Australian farm has three or more tractors. In this historical overview, the author documents the development of the indigenous tractor industry, from the McDonald Imperial of 1909 to more recent cane, olive, and grape harvesters. Australian Tractors puts the industry in an economic and social history context.

Integrated Product and Process Design and Development Springer Nature

This manual describes the design, specification, installation, and maintenance of polyethylene (PE) water pipe.

Price List.. Springer Nature

There has been a growth in the number of teachers involved in teaching English as a foreign or second language. This handbook contains practical suggestions for EFL teachers, and aims to lead to ideas which can be tried out at once. Lists of useful resources and pro-formas are included.

M55 PE Pipe - Design and Installation, Second Edition Springer Nature

Edited by one of the most well-respected and prolific engineers in the world and his team, this book provides a comprehensive overview of solar cells and explores the history of evolution and present scenarios of solar cell design, classification, properties, various semiconductor materials, thin films, wafer-scale, transparent solar cells, and other fundamentals of solar cell design. Solar cells are semiconductor devices that convert light photons into electricity in photovoltaic energy conversion and can help to overcome the global energy crisis. Solar cells have many applications including remote area power systems, earth-orbiting satellites, wristwatches, water pumping, photodetectors and remote radiotelephones. Solar cell technology is economically feasible for commercial-scale power generation. While commercial solar cells exhibit good performance and stability, still researchers are looking at many ways to improve the performance and cost of solar cells via modulating the fundamental properties of semiconductors. Solar cell technology is the key to a clean energy future. Solar

cells directly harvested energy from the sun's light radiation into electricity are in an ever-growing demand for future global energy production. Solar cell-based energy harvesting has attracted worldwide attention for its notable features, such as cheap renewable technology, scalable, lightweight, flexibility, versatility, no greenhouse gas emission, and economy friendly and operational costs. Thus, solar cell technology is at the forefront of renewable energy technologies which are used in telecommunications, power plants, small devices to satellites. Large-scale implementation can be manipulated by various types used in solar cell design and exploration of new materials towards improving performance and reducing cost. Therefore, in-depth knowledge about solar cell design is fundamental for those who wish to apply this knowledge and understanding in industries and academics. This book provides a comprehensive overview on solar cells and explores the history to evolution and present scenarios of solar cell design, classification, properties, various semiconductor materials, thin films, wafer-scale, transparent solar cells, and so on. It also includes solar cells' characterization, analytical tools, theoretical modeling, practices to enhance conversion efficiencies, applications and patents. This outstanding new volume: Provides state-of-the-art information about solar cells Is a unique reference guide for researchers in solar energy Includes novel innovations in the field of solar cell technology Audience: This book is a unique reference guide that can be used by faculty, students, researchers, engineers, device designers and industrialists who are working and learning in the fields of semiconductors, chemistry, physics, electronics, light science, material science, flexible energy conversion, industrial, and renewable energy sectors..

500 Tips for Tesol Teachers Sagwan Press

This book is dedicated to the atmosphere of our planet, and discusses historical and contemporary achievements in meteorological science and technology for the betterment of society. The book explores many significant atmospheric phenomena and physical processes from the local to global scale, as well as from the perspective of short and long-term time scales, and links these processes to various applications in other scientific disciplines with linkages to meteorology. In addition to addressing general topics such as climate system dynamics and climate change, the book also discusses atmospheric boundary layer, atmospheric waves, atmospheric chemistry, optics/photometers, electricity, atmospheric modeling and numeric weather prediction. Through its interdisciplinary approach, the book will be of interest to researchers, students and academics in meteorology and atmospheric science, environmental physics, climate change dynamics, air pollution and human health impacts of atmospheric aerosols.

1 1/2 Story Dwelling iUniverse

Companies get into trouble due to ineffective management decisions, but most books on management dont focus on making better choices. Perhaps thats because not many were written by CEOs with effective leadership track records. Martin Richenhagen, who has successfully led multimillion-dollar companies, presents this guide illustrating how a business leader must approach various situations and challenges. In the fast-paced, change-on-a-dime business world, these kinds of insights are essential. Whether youre a CEO, a senior manager, or an up-and-comer preparing for the future, Simply Management can help you improve your day-to-day effectiveness and leadership. You can learn how to develop a strategic plan that meets business objectives; organize the company for maximum effectiveness; motivate, empower, and help employees advance; and set up proper governance and controls. Case studies show how to avoid managerial mistakes and duplicate best practices that lead to the best outcomes. The managers essential contribution to productivity must always involve focusing on managerial tasks and delegating expert responsibilities, and you can do it right with Simply Management.

Fundamentals of Solar Cell Design Springer Nature

This book provides medical professionals and researchers with a comprehensive overview of fundamental concepts and recent advances in neurochemistry, and offers new perspectives for all those involved with research in related disciplines. As drug discovery for neurodegenerative diseases is one of the largest subspecialties in the field of medicine, the book addresses topics that transcend the borders between disciplines, and presents a wealth of investigations into and discussions on critical questions relevant to the entire field of CNS drug research. It summarizes the available data on the fundamentals of neurotransmitters, treatment of and advanced care for neurodegenerative diseases; and outlines current and future research directions in this field. Combining both conventional and innovative approaches to the topic, the book offers a valuable guide for readers working in medicinal chemistry, the life sciences and allied fields.

MORT Safety Assurance Systems Springer Nature

This textbook offers a comprehensive review of tractor design fundamentals. Discussing more than hundred problems and including about six hundred international references, it offers a unique resource to advanced undergraduate and graduate students, researchers and also practical engineers, managers, test engineers, consultants and even old-timer fans. Tractors are the most important pieces of agricultural mechanization, hence a key factor of feeding the world. In order to address the educational needs of both less and more developed countries, the author included fundamentals of simple but proved designs for tractors with moderate technical levels, along with extensive information concerning modern, premium tractors. The broad technical content has been structured according to five technology levels, addressing all components. Relevant ISO standards are considered in all chapters. The book covers historical highlights, tractor project management (including cost management), traction mechanics, tires (including inflation control), belt ground drives, and ride dynamics. Further topics are: chassis design, diesel engines (with emission limits and installation instructions), all important types of transmissions, topics in machine element design, and human factors (health, safety, comfort). Moreover, the content covers tractor-implement management systems, in particular ISOBUS automation and hydraulic systems. Cumulative damage fundamentals and tractor load spectra are described and implemented for dimensioning and design verification. Fundamentals of energy efficiency are discussed for single tractor components and solutions to reduce the tractor CO2 footprint are suggested.

Sustainable Manufacturing Urbana : University of Illinois Press

Addresses key topic within bridge engineering, from history and aesthetics to design, construction and maintenance issues. This book is suitable for practicing civil and structural engineers in consulting firms and government agencies, bridge contractors, research institutes, and universities and colleges.

Fordson, Farmall, and Poppin' Johnny

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The New Ferguson Album

"The guideline specifies noise and vibration trigger levels for heavy and light rail infrastructure projects, rail traffic-generating developments and non-network rail lines. If these noise levels are likely to be exceeded when the rail project is operational, the proponent must consider 'feasible' and 'reasonable' noise mitigation to reduce the noise impacts towards the trigger levels."--Website summary.

European Agreement Concerning the International Carriage of Dangerous Goods by Road (CD-ROM) .

The second edition of a bestseller, this book discusses an integrated product and process design that has been successfully used to conceptualize, design, and rapidly product competitively-priced quality products. It examines the overlapping, interacting, and iterative nature of the engineering aspects that impact the product realization process. A detailed introduction to the creation of high quality products, the new edition explores the role of innovation, requirements engineering, smart materials, different rapid prototyping methods, and life-cycle cost determination, to name just a few. The book delineates proven methods that have been used successfully to create products.

Principles of Neurochemistry

This book presents a selection of preliminary sizing procedures for turbomachinery. Applicable to both conventional and non-conventional fluids, these procedures enable users to optimize the kinematics, thermodynamics and geometry of the turbomachinery (in the preliminary design phase) using geometric correlations and losses models; to accurately predict the efficiency of turbomachinery - in most cases, in excellent agreement with CFD calculations; and to consistently analyze all turbomachines (axial and radial turbines, axial and centrifugal compressors, centrifugal pumps). The book is intended for bachelor's and master's students in industrial, mechanical and energy engineering, as well as researchers and professionals in the energy systems and turbomachinery sectors, guiding them step by step through the first sizing of turbomachines and the verification of the technological feasibility of turbomachines designed for new conversion systems operating with unconventional fluids.

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