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[Topology in Condensed Matter](#) - Michael I. Monastyrsky 2006-02-04

This book reports new results in condensed matter physics for which topological methods and ideas are important. It considers, on the one hand, recently discovered systems such as carbon nanocrystals and, on the other hand, new topological methods used to describe more traditional systems such as the Fermi surfaces of normal metals, liquid crystals and quasicrystals. The authors of the book are renowned specialists in their fields and present the results of ongoing research, some of it obtained only very recently and not yet published in monograph form.

Solar Energy - Arno Smets 2016

The design of photovoltaic systems for real-life applications, with the physics behind solar energy generation.

Reform of Higher Education in Europe - J. Enders 2011-10-21

The volume 'Reform of Higher Education in Europe' is published in celebration of CHEPS' 25th anniversary. All contributors to this book are working at CHEPS, and bring their extensive knowledge of the deep-seated reforms and changes to the field of higher education and research over the last 25 years. The chapters are each devoted to a detailed policy analysis deeply rooted in CHEPS' quarter-century programme of theoretical and empirical research. Some contributions cover key themes of concern since CHEPS' early years, including state-university relationships, quality assurance and funding. Other contributions cover more contemporary higher education policy issues, including European reform initiatives (innovation, the Bologna Process, doctoral training and the Erasmus programme) and debates around higher education institutions' evolving functions, including the university's third mission and the research function of universities of applied sciences. What unifies all chapters is their recognition that policy success is dependent on smart implementation grounded in a comprehensive understanding of highly complex policy processes. The book as a whole offers clear descriptions and analyses of how policy processes are implemented through co-ordinated institutional and stakeholder interventions. This volume seeks to enhance academic and policy-maker understanding of Europe's evolving higher education system as it emerges as a cornerstone of the contemporary knowledge society.

Introduction to Aircraft Flight Mechanics - Thomas R. Yechout 2003

Based on a 15-year successful approach to teaching aircraft flight mechanics at the US Air Force Academy, this text explains the concepts and derivations of equations for aircraft flight mechanics. It covers aircraft performance, static stability, aircraft dynamics stability and feedback control.

[EMOOCs 2021](#) - Julien Jacqmin 2021

From June 22 to June 24, 2021, Hasso Plattner Institute, Potsdam, hosted the seventh European MOOC Stakeholder Summit (EMOOCs 2021) together with the eighth ACM Learning@Scale Conference. Due to the COVID-19 situation, the conference was held fully online. The boost in digital education worldwide as a result of the pandemic was also one of the main topics of this year's EMOOCs. All institutions of learning have been forced to transform and redesign their educational methods, moving from traditional models to hybrid or completely online models at scale. The learnings, derived from practical experience and research, have been explored in EMOOCs 2021 in six tracks and additional workshops, covering various aspects of this field. In this publication, we present papers from the conference's Experience Track, the Policy Track, the Business Track, the International Track, and the Workshops.

Spacecraft Techniques And Technology - Cnes 2005-06

This new version of the Spacecraft techniques and technology courses was written by more than eighty engineers and experts specialised in the various fields. The courses draw on the long experience and technical competence of the Toulouse Space Centre in developing and building satellites or experimental payloads. This 3-volume book is the 4th edition of the course which has now been updated and translated for the first time into English. All of the texts were written by specialists, the aim being to pass on some of their know-how to engineers and technicians wishing to widen or update their technical knowledge. The first volume deals with missions and related constraints, spacecraft dynamics, the space environment and methods for developing and controlling the quality of spacecraft. The second volume deals with payloads (for telecommunications, observation, science, location-navigation) first from a mission perspective and then with respect to their technical and technological aspects. The third volume covers the techniques and technology used for satellite platforms, namely, mechanical, structural and thermal aspects, propulsion, stabilisation, electricity and computing.

Aerobic Granular Sludge - S. Bathe 2005-03-31

Aerobic Granular Sludge has recently received growing attention by researchers and technology developers, worldwide. Laboratory studies and preliminary field tests led to the conclusion that granular activated sludge can be readily established and profitably used in activated sludge plants, provided 'correct' process conditions are chosen. But what makes process conditions 'correct'? And what makes granules different from activated sludge flocs? Answers to these question are offered in Aerobic Granular Sludge. Major topics covered in this book include: Reasons and mechanism of aerobic granule formation Structure of the microbial population of aerobic granules Role, composition and physical properties of EPS Diffuse limitation and microbial activity within granules Physio-chemical characteristics Operation and application of granule reactors Scale-up aspects of granular sludge reactors, and case studies Aerobic Granular Sludge provides up-to-date information about a rapidly emerging new technology of biological treatment.

[Global Engineering Ethics](#) - Heinz Luegenbiehl 2017-07-07

Global Engineering Ethics introduces the fundamentals of ethics in a context specific to engineering without privileging any one national or cultural conception of ethics. Numerous case studies from around the world help the reader to see clearly the relevance of design, safety, and professionalism to engineers. Engineering increasingly takes place in global contexts, with industrial and research teams operating across national and cultural borders. This adds a layer of complexity to already challenging ethical issues. This book is essential reading for anyone wanting to understand or communicate the ethics of engineering, including students, academics, and researchers, and is indispensable for those involved in international and cross-cultural environments. Takes a global-values approach to engineering ethics rather than prioritizing any one national or regional culture Uses engineering case studies to explain ethical issues and principles in relatable, practical contexts Approaches engineering from a business perspective, emphasizing the extent to which engineering occurs in terms of profit-driven markets, addressing potential conflicts that arise as a result Provides extensive guidance on how to carry out ethical analysis by using case studies, to practice addressing and thinking through issues before confronting them in the world

[Principles of Rock Mechanics](#) - Ruud Weijermars 1997

Identification of Nonlinear Physiological Systems - David T. Westwick 2003-08-28

Significant advances have been made in the field since the previous classic texts were written. This text brings the available knowledge up to date. * Enables the reader to use a wide variety of nonlinear system identification techniques. * Offers a thorough treatment of the underlying theory. * Provides a MATLAB toolbox containing implementation of the latest identification methods together with an extensive set of problems using realistic data sets.

Advanced Structural Analysis - Devdas Menon 2009

Advanced Structural Analysis is a textbook that essentially covers matrix analysis of structures, presented in a fresh and insightful way. This book is an extension of the author's basic book on Structural Analysis. The initial three chapters review the basic concepts in structural analysis and matrix algebra, and show how the latter provides an excellent mathematical framework for the former. The next three chapters discuss in detail and demonstrate through many examples how matrix methods can be applied to linear static analysis of skeletal structures (plane and space trusses; beams and grids; plane and space frames) by the stiffness method. Also, it is shown how simple structures can be conveniently solved using a reduced stiffness formulation, involving far less computational effort. The flexibility method is also discussed. Finally, in the seventh chapter, analysis of elastic instability and second-order response is discussed in detail. The main objective is to enable the student to have a good grasp of all the fundamental issues in these advanced topics in Structural Analysis, besides enjoying the learning process, and developing analytical and intuitive skills. With these strong fundamentals, the student will be well prepared to explore and understand further topics like Finite Elements Analysis.

Drinking Water: Principles And Practices - Van Dijk Hans J C 2006-11-24

This unique volume provides a comprehensive overview of all the major aspects of modern drinking water systems in the western European context. It not only covers the theoretical principles, but also the historical background and practical aspects of design and operation, legislation, planning and finance of drinking water supply in its social and economic context. The principles and practices are illustrated using experiences from The Netherlands. The Dutch drinking water supply is well known for its multiple barrier systems and high technical standards. The Dutch drinking water is of high quality and does not contain chlorine, and the Dutch therefore readily drink tap water and do not see the need to buy bottled water or in-house filters, with their drawbacks on national economics, public health and the environment. This illustrative overview can be used as a reference for other countries and regions.

Advanced Transport Phenomena - John C. Slattery 1999-07-13

The term 'transport phenomena' describes the fundamental processes of momentum, energy, and mass transfer. This text provides a thorough discussion of transport phenomena, laying the foundation for understanding a wide variety of operations used by chemical engineers. The book is arranged in three parallel parts covering the major topics of momentum, energy, and mass transfer. Each part begins with the theory, followed by illustrations of the way the theory can be used to obtain fairly complete solutions, and concludes with the four most common types of averaging used to obtain approximate solutions. A broad range of technologically important examples, as well as numerous exercises, are provided throughout the text. Based on the author's extensive teaching experience, a suggested lecture outline is also included. This book is intended for first-year graduate engineering students; it will be an equally useful reference for researchers in this field.

Policy Analysis of Multi-Actor Systems - Pieter Bots 2022-09

Deze titel is digitaal beschikbaar via Open Access. Volg deze link om de publicatie te bekijken. Policy Analysis of Multi-Actor Systems is an introduction into the art and craft of problem exploration and problem structuring. It positions policy analysis as a scientific discipline focused on systems analysis in a multiactor context to support better informed decision-making. The approach presented in this book is considered to be the cornerstone of the curricula of the Faculty of Technology, Policy and Management of Delft University of Technology and underlies the research on (the governance of) socio-technical systems. Systems thinking applied in a multi-actor environment and its inherent multi-disciplinary character is what makes this work stand out from traditional hard- and soft systems approaches. The core of the book is dedicated to systems analysis, actor- or stakeholder analysis and discusses methods for dealing with uncertainty. These analytical

activities combined lead to a rich problem description and to plans for further research. Due to the stepwise approach this book serves as a basis for any problem analysis both for our bachelor and master students, our alumni worldwide and any interested practitioners.

Fatigue of Structures and Materials - J. Schijve 2008-12-16

Fatigue of structures and materials covers a wide scope of different topics. The purpose of the present book is to explain these topics, to indicate how they can be analyzed, and how this can contribute to the designing of fatigue resistant structures and to prevent structural fatigue problems in service. Chapter 1 gives a general survey of the topic with brief comments on the significance of the aspects involved. This serves as a kind of a program for the following chapters. The central issues in this book are predictions of fatigue properties and designing against fatigue. These objectives cannot be realized without a physical and mechanical understanding of all relevant conditions. In Chapter 2 the book starts with basic concepts of what happens in the material of a structure under cyclic loads. It illustrates the large number of variables which can affect fatigue properties and it provides the essential background knowledge for subsequent chapters. Different subjects are presented in the following main parts: • Basic chapters on fatigue properties and predictions (Chapters 2-8) • Load spectra and fatigue under variable-amplitude loading (Chapters 9-11) • Fatigue tests and scatter (Chapters 12 and 13) • Special fatigue conditions (Chapters 14-17) • Fatigue of joints and structures (Chapters 18-20) • Fiber-metal laminates (Chapter 21) Each chapter presents a discussion of a specific subject.

Music Learning with Massive Open Online Courses (MOOCs) - L. Steels 2015-11-24

Massive Open Online Courses, known as MOOCs, have arisen as the logical consequence of marrying long-distance education with the web and social media. MOOCs were confidently predicted by advanced thinkers decades ago. They are undoubtedly here to stay, and provide a valuable resource for learners and teachers alike. This book focuses on music as a domain of knowledge, and has three objectives: to introduce the phenomenon of MOOCs; to present ongoing research into making MOOCs more effective and better adapted to the needs of teachers and learners; and finally to present the first steps towards 'social MOOCs', which support the creation of learning communities in which interactions between learners go beyond correcting each other's assignments. Social MOOCs try to mimic settings for humanistic learning, such as workshops, small choirs, or groups participating in a Hackathon, in which students aided by somebody acting as a tutor learn by solving problems and helping each other. The papers in this book all discuss steps towards social MOOCs; their foundational pedagogy, platforms to create learning communities, methods for assessment and social feedback and concrete experiments. These papers are organized into five sections: background; the role of feedback; platforms for learning communities; experiences with social MOOCs; and looking backwards and looking forward. Technology is not a panacea for the enormous challenges facing today's educators and learners, but this book will be of interest to all those striving to find more effective and humane learning opportunities for a larger group of students.

Water Policy in the Netherlands - Stijn Reinhard 2009

As a low-lying delta region with a high population density, the Netherlands has long focused on the prevention of flooding catastrophes and the reclamation of valuable land. The evolution of Dutch water governance, beginning with the creation of local 'water boards' in the Middle Ages and growing into a complex infrastructure of polders, dams, and controlled waterways offers a compelling study of pitfalls and successes within one of the world's most challenging regions for water management. Water Policy in the Netherlands traces the arc of water governance in the country, from technological innovations to prevent wide-scale flooding, to strategies focused primarily on improving water quality, to an integral water management approach which brings together perspectives from economics, hydrology, ecology, water law, and water technology. The contributions in this book demonstrate how both the technical and social sciences must play key roles in crafting policy in the face of serious environmental challenges including climate change, sea level rise, and increasing soil subsidence. Innovative themes explored in the work include: how economic models and pricing structures might improve efficiency in the distribution of water resources, how the competing uses for water-including for recreation, arable agriculture, fisheries, and natural preservation-create demands on both the quantity and quality of water resources, and how public participation, cogovernance, and the balance of public and private interests will be necessary to meet the goals of the EUs

Water Framework Directive. This resource serves as both an invaluable case study and as a text to develop the analytical tool of integral water management for students, policy-makers, and NGO professionals in developed and developing regions.

Design and Analysis of Composite Structures - Christos Kassapoglou 2011-07-05

Design and Analysis of Composite Structures enables graduate students and engineers to generate meaningful and robust designs of complex composite structures. Combining analysis and design methods for structural components, the book begins with simple topics such as skins and stiffeners and progresses through to entire components of fuselages and wings. Starting with basic mathematical derivation followed by simplifications used in real-world design, Design and Analysis of Composite Structures presents the level of accuracy and range of applicability of each method. Examples taken from actual applications are worked out in detail to show how the concepts are applied, solving the same design problem with different methods based on different drivers (e.g. cost or weight) to show how the final configuration changes as the requirements and approach change. Provides a toolkit of analysis and design methods to most situations encountered in practice, as well as analytical frameworks and the means to solving them for tackling less frequent problems. Presents solutions applicable to optimization schemes without having to run finite element models at each iteration, speeding up the design process and allowing examination of several more alternatives than traditional approaches. Includes guidelines showing how decisions based on manufacturing considerations affect weight and how weight optimization may adversely affect the cost. Accompanied by a website at www.wiley.com/go/kassapoglou hosting lecture slides and solutions to the exercises for instructors.

Introduction to Flight - John Anderson 2005

Blending history and biography with discussion of engineering concepts, and the development of flight through this perspective, this text includes new content covering the last days of the Concorde, the centennial of the Wright Brothers' flight, and the Mariner and Voyager 2 missions.

Aerospace Structures and Materials - Yucheng Liu 2016-10-07

This comprehensive volume presents a wide spectrum of information about the design, analysis and manufacturing of aerospace structures and materials. Readers will find an interesting compilation of reviews covering several topics such as structural dynamics and impact simulation, acoustic and vibration testing and analysis, fatigue analysis and life optimization, reversing design methodology, non-destructive evaluation, remotely piloted helicopters, surface enhancement of aerospace alloys, manufacturing of metal matrix composites, applications of carbon nanotubes in aircraft material design, carbon fiber reinforcements, variable stiffness composites, aircraft material selection, and much more. This volume is a key reference for graduates undertaking advanced courses in materials science and aeronautical engineering as well as researchers and professional engineers seeking to increase their understanding of aircraft material selection and design.

Backcasting for a Sustainable Future - Jaco Quist 2007

Summary: "Backcasting: looking back from a desirable future. Since the 1990s sustainable futures have been explored in backcasting experiments, numerous stakeholders have been involved and first steps have been planned in line with the envisioned sustainable futures. But what is the impact of these so-called backcasting experiments ten years later? Backcasting for a Sustainable Future: The impact after 10 years is the first book that systematically investigates the follow-up and spin-off of backcasting experiments seven to ten years after completion. It presents three case studies about (1) Novel Protein Foods and meat alternatives; (2) Sustainable Households and Nutrition; and (3) Multiple Sustainable Land-use in rural areas. The cases show that participatory backcasting may, but does not automatically lead to substantial follow-up and spinoff. Using innovation and learning theories the factors that affect the emergence of follow-up and new networks are identified and discussed. This book will be of great value to all those who work on sustainable futures and system innovations, such as researchers in system innovations, sustainability and social change, as well as policy-makers, transition experts and backcasting professionals."--Publisher description.

Hypersonic and High Temperature Gas Dynamics - John David Anderson 2000

This book is a self-contained text for those students and readers interested in learning hypersonic flow and high-temperature gas dynamics. It assumes no prior familiarity with either subject on the part of the reader.

If you have never studied hypersonic and/or high-temperature gas dynamics before, and if you have never worked extensively in the area, then this book is for you. On the other hand, if you have worked and/or are working in these areas, and you want a cohesive presentation of the fundamentals, a development of important theory and techniques, a discussion of the salient results with emphasis on the physical aspects, and a presentation of modern thinking in these areas, then this book is also for you. In other words, this book is designed for two roles: 1) as an effective classroom text that can be used with ease by the instructor, and understood with ease by the student; and 2) as a viable, professional working tool for engineers, scientists, and managers who have any contact in their jobs with hypersonic and/or high-temperature flow.

Electrical Machines, Drives, and Power Systems - Theodore Wildi 2006

The HVDC Light[trademark] method of transmitting electric power. Introduces students to an important new way of carrying power to remote locations. Revised, reformatted Instructor's Manual. Provides instructors with a tool that is much easier to read. Clear, practical approach.

Resonant Games - Eric Klopfer 2018-07-17

Principles for designing educational games that integrate content and play and create learning experiences connecting to many areas of learners' lives. Too often educational videogames are narrowly focused on specific learning outcomes dictated by school curricula and fail to engage young learners. This book suggests another approach, offering a guide to designing games that integrates content and play and creates learning experiences that connect to many areas of learners' lives. These games are not gamified workbooks but are embedded in a long-form experience of exploration, discovery, and collaboration that takes into consideration the learning environment. Resonant Games describes twenty essential principles for designing games that offer this kind of deeper learning experience, presenting them in connection with five games or collections of games developed at MIT's educational game research lab, the Education Arcade. Each of the games—which range from Vanished, an alternate reality game for middle schoolers promoting STEM careers, to Ubiquitous Bio, a series of casual mobile games for high school biology students—has a different story, but all spring from these fundamental assumptions: honor the whole learner, as a full human being, not an empty vessel awaiting a fill-up; honor the sociality of learning and play; honor a deep connection between the content and the game; and honor the learning context—most often the public school classroom, but also beyond the classroom.

Process Engineering Renewal 1 - Éric Schaer 2020-03-31

Process engineering emerged at the beginning of the 20th Century and has become an essential scientific discipline for the matter and energy processing industries. Its success is incontrovertible, with the exponential increase in techniques and innovations. Rapid advances in new technologies such as artificial intelligence, as well as current societal needs – sustainable development, climate change, renewable energy, the environment – are developments that must be taken into account in industrial renewal. Process Engineering Renewal 1 – the first volume of three – focuses on training, demonstrating the need for innovation in order for the field to have a framework that is sustainable, in a highly changeable world.

Bringing Standardization in University Curricula - Economic Commission for Europe 2019-05-03

This paper advocates for integrating education about standardization into the curricula of educational establishments. It presents evidence of the relevance of standards for policymakers and business executives as well as professionals. It then reviews the efforts of UNECE since 2012 to date to improve education about standardization, as well as activities underway by universities, standards bodies and independent associations. The conclusions present priorities and directions for future work.

Handbook on Microgrids for Power Quality and Connectivity - Asian Development Bank 2020-07-01

Microgrids are poised to play a big role in the electricity ecosystem of the future—with decarbonization, digitalization, decentralization, and non-wires solutions being key attributes. This handbook serves as a guide to evaluate the feasibility of microgrid systems in enhancing power supply quality and connectivity. It includes information about on-grid microgrids for urban and industrial applications, prevailing business models, and emerging trends that could shape the future of this sector.

Getting Smart - Tom Vander Ark 2011-09-20

A comprehensive look at the promise and potential of online learning In our digital age, students have dramatically new learning needs and must be prepared for the idea economy of the future. In Getting Smart,

well-known global education expert Tom Vander Ark examines the facets of educational innovation in the United States and abroad. Vander Ark makes a convincing case for a blend of online and onsite learning, shares inspiring stories of schools and programs that effectively offer "personal digital learning" opportunities, and discusses what we need to do to remake our schools into "smart schools." Examines the innovation-driven world, discusses how to combine online and onsite learning, and reviews "smart tools" for learning. Investigates the lives of learning professionals, outlines the new employment bargain, examines online universities and "smart schools." Makes the case for smart capital, advocates for policies that create better learning, studies smart cultures

Buckling of Structures - B. Budiansky 2013-03-08

This volume contains the written texts of the papers presented at a Symposium on Buckling of Structures held at Harvard University in June 1974. This symposium, one of several on various topics sponsored annually by the International Union of Theoretical and Applied Mechanics (IUTAM), was organized by a Scientific Committee consisting of B. Budiansky (Chairman), A. H. Chilver, W. T. Koiter, and A. S. Vol'mir. Participation was by invitation of the Scientific Committee, and specific lecturers were invited to speak in the areas of experimental research, buckling and post-buckling calculations, post-buckling mode interaction, plasticity and creep effects, dynamic buckling, stochastic problems, and design. A total of 29 lectures were delivered, including a general opening lecture by Professor Koiter, and there were 93 registered participants from 16 different countries. Financial support for the symposium was provided by IUTAM, in the form of partial travel support for a number of participants, and also by the National Science Foundation, the National Aeronautics and Space Administration, and the Air Force Office of Scientific Research, for additional travel support and administrative expenses. Meeting facilities and services were efficiently provided by the Science Center of Harvard University, and administrative support was generously provided by the Division of Engineering and Applied Physics of Harvard University. The scientific chairman enjoyed the invaluable assistance of his colleagues Professors J. W. Hutchinson and J. L.

Control Engineering - László Keviczky 2018-10-04

This book offers fundamental information on the analysis and synthesis of continuous and sampled data control systems. It includes all the required preliminary materials (from mathematics, signals and systems) that are needed in order to understand control theory, so readers do not have to turn to other textbooks. Sampled data systems have recently gained increasing importance, as they provide the basis for the analysis and design of computer-controlled systems. Though the book mainly focuses on linear systems, input/output approaches and state space descriptions are also provided. Control structures such as feedback, feed forward, internal model control, state feedback control, and the Youla parameterization approach are discussed, while a closing section outlines advanced areas of control theory. Though the book also contains selected examples, a related exercise book provides Matlab/Simulink exercises for all topics discussed in the textbook, helping readers to understand the theory and apply it in order to solve control problems. Thanks to this combination, readers will gain a basic grasp of systems and control, and be able to analyze and design continuous and discrete control systems.

Delft Design Guide - Annemiek Van Boeijen 2014-04-01

an overview of product design approaches and methods used at the faculty of Industrial Design Engineering at the TU Delft.

The Giant Vesicle Book - Rumiana Dimova 2019-11-19

Giant vesicles are widely used as a model membrane system, both for basic biological systems and for their promising applications in the development of smart materials and cell mimetics, as well as in driving new technologies in synthetic biology and for the cosmetics and pharmaceutical industry. The reader is guided to use giant vesicles, from the formation of simple membrane platforms to advanced membrane and cell system models. It also includes fundamentals for understanding lipid or polymer membrane structure, properties and behavior. Every chapter includes ideas for further applications and discussions on the implications of the observed phenomena towards understanding membrane-related processes. The Giant Vesicle Book is meant to be a road companion, a trusted guide for those making their first steps in this field as well as a source of information required by experts. Key Features • A complete summary of the field, covering fundamental concepts, practical methods, core theory, and the most promising applications • A

start-up package of theoretical and experimental information for newcomers in the field • Extensive protocols for establishing the required preparations and assays • Tips and instructions for carefully performing and interpreting measurements with giant vesicles or for observing them, including pitfalls • Approaches developed for investigating giant vesicles as well as brief overviews of previous studies implementing the described techniques • Handy tables with data and structures for ready reference

An Introduction to Traffic Flow Theory - Lily Elefteriadou 2013-11-19

This text provides a comprehensive and concise treatment of the topic of traffic flow theory and includes several topics relevant to today's highway transportation system. It provides the fundamental principles of traffic flow theory as well as applications of those principles for evaluating specific types of facilities (freeways, intersections, etc.). Newer concepts of Intelligent transportation systems (ITS) and their potential impact on traffic flow are discussed. State-of-the-art in traffic flow research and microscopic traffic analysis and traffic simulation have significantly advanced and are also discussed in this text. Real world examples and useful problem sets complement each chapter. This textbook is meant for use in advanced undergraduate/graduate level courses in traffic flow theory with prerequisites including two semesters of calculus, statistics, and an introductory course in transportation. The text would also be of interest to transportation professionals as a refresher in traffic flow theory, or as a reference. Students and engineers of diverse backgrounds will find this text accessible and applicable to today's traffic issues.

Contrarian Branding - Roland van der Vorst 2017-12-05

Catching the eye by creating polarity is a sophisticated technique to set brands apart from all other competitors in a radical way. This book shows how to create brand associations that radically split a competitive field into absolute opposites and how to reconcile these brands in unexpected ways.

Fundamentals of Aerospace Engineering - Manuel Soler 2014

This "is a textbook that provides an introductory, thorough overview of aeronautical engineering, and it is aimed at serving as reference for an undergraduate course on aerospace engineering. The book is divided into three parts, namely: Introduction (The Scope, Generalities), The Aircraft (Aerodynamics, materials and Structures, Propulsion, Instruments and Systems, Flight Mechanics), and Air Transportation, Airports, and Air Navigation."--

25 Years of Ed Tech - Martin Weller 2020-02-26

In this lively and approachable volume based on his popular blog series, Martin Weller demonstrates a rich history of innovation and effective implementation of ed tech across higher education. From Bulletin Board Systems to blockchain, Weller follows the trajectory of education by focusing each chapter on a technology, theory, or concept that has influenced each year since 1994. Calling for both caution and enthusiasm, Weller advocates for a critical and research-based approach to new technologies, particularly in light of disinformation, the impact of social media on politics, and data surveillance trends. A concise and necessary retrospective, this book will be valuable to educators, ed tech practitioners, and higher education administrators, as well as students.

Introduction to Aerodynamics - Gale M. Craig 2002

Sustainable Development and Planning IX - C.A. Brebbia 2017-10-11

Containing papers presented at the 9th International Conference on Sustainable Development and Planning this volume brings together the work of academics, policy makers, practitioners and other international stakeholders and discusses new academic findings and their application in planning and development strategies, assessment tools and decision making processes. Problems related to development and planning are present in all areas and regions of the world. Accelerated urbanisation has resulted in both the deterioration of the environment and quality of life. Taking into consideration the interaction between different regions and developing new methodologies for monitoring, planning and implementation, new strategies can offer solutions mitigating environmental pollution and non-sustainable use of available resources. Energy saving and eco-friendly buildings have become an important part of modern day progress with emphasis on resource optimisation. Planning is a key part in ensuring that these solutions along with new materials and processes are efficiently incorporated. Planners, environmentalists, architects, engineers and economists have to work collectively to ensure that present and future needs are met. The papers in the

book cover a number of topics, including: City planning; Regional planning; Rural developments; Sustainability and the built environment; Sustainability supply chain; Resilience; Environmental management; Energy resources; Cultural heritage; Quality of life; Sustainable solutions in emerging countries; Sustainable tourism; Learning from nature; Transportation; Social and political issues; Community planning; UN Sustainable Development Goals and Timber Structures.

Advanced Solid State Physics - Philip Phillips 2019-03-08

Solid state physics continues to be the most rapidly growing subdiscipline in physics. As a result, entering graduate students wishing to pursue research in this field face the daunting task of not only mastering the old topics but also gaining competence in the problems of current interest, such as the fractional quantum Hall effect, strongly correlated electron systems, and quantum phase transitions. This book is written to serve the needs of such students. I have attempted in this book to present some of the standard topics in a way that makes it possible to move smoothly to current material. Hence, all the interesting topics are not presented at the end of the book. For example, immediately after the first 50 pages, Anderson's analysis of

local magnetic moments is presented as an application of Hartree-Fock theory; this affords a discussion of the relationship with the Kondo model and how scaling ideas can be used to uncloak low-energy physics. As the key problems of current interest in solid state involve some aspects of electron-electron interactions or disorder or both, I have focused on the archetypal problems in which such physics is central. However, only those problems in which there is a consensus view are discussed extensively. In addition, I have placed the emphasis on physics rather than on techniques. Consequently, I focus on a clear presentation of the phenomenology along with a pedagogical derivation of the relevant equations. A key goal of the detailed derivations is to make it possible for the students who have read this book to immediately comprehend research papers on related topics. A key omission in this book is magnetism beyond the Stoner criterion and local magnetic moments. This omission has arisen primarily because the topic is adequately treated in the book by Assa Auerbach.

Electrical Machine and Drive (Introduce to Advance Control) - Rajendra Aparnathi