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Design of Rotating Electrical
Machines - Juha Pyrhonen

2013-09-26

In one complete volume, this
essential reference presents an

in-depth overview of the
theoretical principles and
techniques of electrical machine
design. This timely new edition
offers up-to-date theory and

guidelines for the design of electrical machines, taking into account recent advances in permanent magnet machines as well as synchronous reluctance machines. New coverage includes: Brand new material on the ecological impact of the motors, covering the eco-design principles of rotating electrical machines An expanded section on the design of permanent magnet synchronous machines, now reporting on the design of tooth-coil, high-torque permanent magnet machines and their properties Large updates and new material on synchronous reluctance machines, air-gap inductance, losses in and resistivity of

permanent magnets (PM), operating point of loaded PM circuit, PM machine design, and minimizing the losses in electrical machines> End-of-chapter exercises and new direct design examples with methods and solutions to real design problems> A supplementary website hosts two machine design examples created with MATHCAD: rotor surface magnet permanent magnet machine and squirrel cage induction machine calculations. Also a MATLAB code for optimizing the design of an induction motor is provided Outlining a step-by-step sequence of machine design, this book enables

electrical machine designers to design rotating electrical machines. With a thorough treatment of all existing and emerging technologies in the field, it is a useful manual for professionals working in the diagnosis of electrical machines and drives. A rigorous introduction to the theoretical principles and techniques makes the book invaluable to senior electrical engineering students, postgraduates, researchers and university lecturers involved in electrical drives technology and electromechanical energy conversion.

Soilborne Microbial Plant Pathogens and Disease

Management, Volume Two - P. Narayanasamy 2019-10-22

Crop disease management strategies revolve around the principles of exclusion, eradication and immunization. Cultural practices are aimed at preventing or reducing the accumulation of pathogen population (inoculum). Development of cultivars with genetic resistance by transgressing resistance gene(s) through traditional breeding procedures or biotechnological techniques is the most effective and acceptable strategy, as it is environment-friendly and does not need any additional cost to the grower. Assessment of

different grades of resistance of cultivars or genotypes to soilborne microbial pathogens has been possible by quantifying pathogen populations or their DNA contents in the test plants by applying biological and molecular methods. This second volume of a two-volume set focuses on the soilborne microbial plant pathogens and the diseases caused by them. The book provides information on ecology and epidemiology of soilborne microbial plant pathogens and various strategies applicable for effective management of diseases. Chapters cover exclusion and prevention

strategies; improvement of host plant resistance; biological management; application of chemicals; and integration of these disease management strategies. Features Discusses various aspects of soilborne microbial plant pathogens to develop effective methods of managing diseases. Presents information on epidemiology and ecology of soilborne microbial plant pathogens. Facilitates the application of management strategies alone or in combination with others for effective suppression of disease development. Features information on application of biotic and abiotic biological control agents (BCAs) to

suppress pathogen development either by directly acting on the pathogen(s) or indirectly by enhancing host resistance to the pathogens. Employs biotic and abiotic biocontrol agents either to replace or reduce the use of chemicals is an achievable approach for managing the soilborne microbial pathogens.

Thermodynamics - James

Luscombe 2018-04-09

This book provides an accessible yet thorough introduction to thermodynamics, crafted and class-tested over many years of teaching.

Suitable for advanced undergraduate and graduate students, this book delivers

clear descriptions of how to think about the mathematics and physics involved. The content has been carefully developed in consultation with a large number of instructors, teaching courses worldwide, to ensure wide applicability to modules on thermodynamics.

Modern applications of thermodynamics (in physics and related areas) are included throughout—something not offered to the same degree by existing texts in the field.

Features: A sophisticated approach to the subject that is suitable for advanced undergraduate students and above. Modern applications of thermodynamics included

throughout To be followed by
volumes on statistical
mechanics, which can be used
in conjunction with this book on
courses which cover both
thermodynamics and statistical
mechanics

The Long Shadow of Informality

- Franziska Ohnsorge

2022-02-09

A large percentage of workers
and firms operate in the
informal economy, outside the
line of sight of governments in
emerging market and
developing economies. This
may hold back the recovery in
these economies from the deep
recessions caused by the
COVID-19 pandemic--unless
governments adopt a broad set

of policies to address the
challenges of widespread
informality. This study is the first
comprehensive analysis of the
extent of informality and its
implications for a durable
economic recovery and for long-
term development. It finds that
pervasive informality is
associated with significantly
weaker economic outcomes--
including lower government
resources to combat
recessions, lower per capita
incomes, greater poverty, less
financial development, and
weaker investment and
productivity.

Ion-Selective Electrode Reviews

- J. D. R. Thomas 2013-10-22

Ion-Selective Electrode

Reviews, Volume 5 is a collection of articles that covers ion-speciation. The book aims to present the advancements of the range and capabilities of selective ion-sensors. The topics covered in the selection are neutral carrier based ion-selective electrodes; reference electrodes and liquid junction effects in ion-selective electrode potentiometry; ion transfer across water/organic phase boundaries and analytical; and carbon substrate ion-selective electrodes. The text will be of great use to chemists and chemical engineers.

Nanoferroics - M.D. Glinchuk
2013-05-13

This book covers the physical

properties of nanosized ferroics, also called nanoferroics.

Nanoferroics are an important class of ceramic materials that substitute conventional ceramic ferroics in modern electronic devices. They include ferroelectric, ferroelastic, magnetic and multiferroic nanostructured materials. The phase transitions and properties of these nanostructured ferroics are strongly affected by the geometric confinement originating from surfaces and interfaces. As a consequence, these materials exhibit a behavior different from the corresponding bulk crystalline, ceramic and powder ferroics.

This monograph offers

comprehensive coverage of size- and shape-dependent effects at the nanoscale; the specific properties that these materials have been shown to exhibit; the theoretical approaches that have been successful in describing the size-dependent effects observed experimentally; and the technological aspects of many chemical and physico-chemical nanofabrication methods relevant to making nanoferric materials and composites. The book will be of interest to an audience of condensed matter physicists, material scientists and engineers, working on ferroic nanostructured materials, their

fundamentals, fabrication and device applications.

Probability and Statistics -

Michael J. Evans 2004

Unlike traditional introductory math/stat textbooks, Probability and Statistics: The Science of Uncertainty brings a modern flavor based on incorporating the computer to the course and an integrated approach to inference. From the start the book integrates simulations into its theoretical coverage, and emphasizes the use of computer-powered computation throughout.* Math and science majors with just one year of calculus can use this text and experience a refreshing blend of applications and theory that

goes beyond merely mastering the technicalities. They'll get a thorough grounding in probability theory, and go beyond that to the theory of statistical inference and its applications. An integrated approach to inference is presented that includes the frequency approach as well as Bayesian methodology. Bayesian inference is developed as a logical extension of likelihood methods. A separate chapter is devoted to the important topic of model checking and this is applied in the context of the standard applied statistical techniques. Examples of data analyses using real-world data are

presented throughout the text. A final chapter introduces a number of the most important stochastic process models using elementary methods.

*Note: An appendix in the book contains Minitab code for more involved computations. The code can be used by students as templates for their own calculations. If a software package like Minitab is used with the course then no programming is required by the students.

Introduction to the New Mainframe: z/VM Basics - Lydia Parziale 2008-01-10

This textbook provides students with the background knowledge and skills necessary to begin

using the basic functions and features of z/VM Version 5, Release 3. It is part of a series of textbooks designed to introduce students to mainframe concepts and help prepare them for a career in large systems computing. For optimal learning, students are assumed to be literate in personal computing and have some computer science or information systems background. Others who will benefit from this textbook include z/OS professionals who would like to expand their knowledge of other aspects of the mainframe computing environment. This course can be used as a prerequisite to understanding

Linux on System z. After reading this textbook and working through the exercises, the student will have received a basic understanding of the following topics: The Series z Hardware concept and the history of the mainframe Virtualization technology in general and how it is exploited by z/VM Operating systems that can run as guest systems under z/VM z/VM components The z/VM control program and commands The interactive environment under z/VM, CMS and its commands z/VM planning and administration Implementing the networking capabilities of z/VM Tools to monitor the performance of

z/VM systems and guest operating systems The REXX programming language and CMS pipelines Security issues when running z/VM

Numerical Methods in Contact Mechanics - Vladislav A.

Yastrebov 2013-02-13

Computational contact mechanics is a broad topic which brings together algorithmic, geometrical, optimization and numerical aspects for a robust, fast and accurate treatment of contact problems. This book covers all the basic ingredients of contact and computational contact mechanics: from efficient contact detection algorithms and

classical optimization methods to new developments in contact kinematics and resolution schemes for both sequential and parallel computer architectures.

The book is self-contained and intended for people working on the implementation and improvement of contact algorithms in a finite element software. Using a new tensor algebra, the authors introduce some original notions in contact kinematics and extend the classical formulation of contact elements. Some classical and new resolution methods for contact problems and associated ready-to-implement expressions are provided.

Contents: 1. Introduction to

Computational Contact. 2. Geometry in Contact Mechanics. 3. Contact Detection. 4. Formulation of Contact Problems. 5. Numerical Procedures. 6. Numerical Examples. About the Authors
Vladislav A. Yastrebov is a postdoctoral-fellow in Computational Solid Mechanics at MINES ParisTech in France. His work in computational contact mechanics was recognized by the CSMA award and by the Prix Paul Caseau of the French Academy of Technology and Electricité de France.

Risk, Ruin and Survival -
Ricardas Zitikis 2020-04-02
Developing techniques for

assessing various risks and calculating probabilities of ruin and survival are exciting topics for mathematically-inclined academics. For practicing actuaries and financial engineers, the resulting insights have provided enormous opportunities but also created serious challenges to overcome, thus facilitating closer cooperation between industries and academic institutions. In this book, several renowned researchers with extensive interdisciplinary research experiences share their thoughts that, in one way or another, contribute to the betterment of practice and theory of decision making under

uncertainty. Behavioral, cultural, mathematical, and statistical aspects of risk assessment and modelling have been explored, and have been often illustrated using real and simulated data. Topics range from financial and insurance risks to security-type risks, from one-dimensional to multi- and even infinite-dimensional risks. The articles in the book were written with a broad audience in mind and should provide enjoyable reading for those with university level degrees and/or those who have studied for accreditation by various actuarial and financial societies.

Transport Theory - James J. Duderstadt 1979

Problems after each chapter

Partial Differential Equations of Parabolic Type - Avner

Friedman 2013-08-16

With this book, even readers unfamiliar with the field can acquire sufficient background to understand research literature related to the theory of parabolic and elliptic equations. 1964 edition.

Foundations of Quantum Theory - Klaas Landsman

2017-05-11

This book studies the foundations of quantum theory through its relationship to classical physics. This idea goes back to the Copenhagen Interpretation (in the original version due to Bohr and

Heisenberg), which the author relates to the mathematical formalism of operator algebras originally created by von Neumann. The book therefore includes comprehensive appendices on functional analysis and C*-algebras, as well as a briefer one on logic, category theory, and topos theory. Matters of foundational as well as mathematical interest that are covered in detail include symmetry (and its "spontaneous" breaking), the measurement problem, the Kochen-Specker, Free Will, and Bell Theorems, the Kadison-Singer conjecture, quantization, indistinguishable particles, the quantum theory of large

systems, and quantum logic, the latter in connection with the topos approach to quantum theory. This book is Open Access under a CC BY licence.

HKDSE Economics (Definition)

[\(PDF\)](#) ([PDF\)](#) - Herman

Yeung 2020-05-15

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Introduction to Many-Body
Physics - Piers Coleman
2015-11-26
A modern, graduate-level
introduction to many-body
physics in condensed matter,
this textbook explains the tools
and concepts needed for a
research-level understanding of
the correlated behavior of
quantum fluids. Starting with an
operator-based introduction to
the quantum field theory of
many-body physics, this
textbook presents the Feynman
diagram approach, Green's

functions and finite-temperature many-body physics before developing the path integral approach to interacting systems. Special chapters are devoted to the concepts of Fermi liquid theory, broken symmetry, conduction in disordered systems, superconductivity and the physics of local-moment metals. A strong emphasis on concepts and numerous exercises make this an invaluable course book for graduate students in condensed matter physics. It will also interest students in nuclear, atomic and particle physics.

Bioprocess Engineering

Principles - Pauline M. Doran

1995-04-03

The emergence and refinement of techniques in molecular biology has changed our perceptions of medicine, agriculture and environmental management. Scientific breakthroughs in gene expression, protein engineering and cell fusion are being translated by a strengthening biotechnology industry into revolutionary new products and services. Many a student has been enticed by the promise of biotechnology and the excitement of being near the cutting edge of scientific advancement. However, graduates trained in molecular biology and cell manipulation

soon realise that these techniques are only part of the picture. Reaping the full benefits of biotechnology requires manufacturing capability involving the large-scale processing of biological material. Increasingly, biotechnologists are being employed by companies to work in co-operation with chemical engineers to achieve pragmatic commercial goals. For many years aspects of biochemistry and molecular genetics have been included in chemical engineering curricula, yet there has been little attempt until recently to teach aspects of engineering applicable to process design to

biotechnologists. This textbook is the first to present the principles of bioprocess engineering in a way that is accessible to biological scientists. Other texts on bioprocess engineering currently available assume that the reader already has engineering training. On the other hand, chemical engineering textbooks do not consider examples from bioprocessing, and are written almost exclusively with the petroleum and chemical industries in mind. This publication explains process analysis from an engineering point of view, but refers exclusively to the treatment of

biological systems. Over 170 problems and worked examples encompass a wide range of applications, including recombinant cells, plant and animal cell cultures, immobilised catalysts as well as traditional fermentation systems. * * First book to present the principles of bioprocess engineering in a way that is accessible to biological scientists * Explains process analysis from an engineering point of view, but uses worked examples relating to biological systems * Comprehensive, single-authored * 170 problems and worked examples encompass a wide range of applications, involving recombinant plant and animal

cell cultures, immobilized catalysts, and traditional fermentation systems * 13 chapters, organized according to engineering sub-disciplines, are grouped in four sections - Introduction, Material and Energy Balances, Physical Processes, and Reactions and Reactors * Each chapter includes a set of problems and exercises for the student, key references, and a list of suggestions for further reading * Includes useful appendices, detailing conversion factors, physical and chemical property data, steam tables, mathematical rules, and a list of symbols used * Suitable for course adoption - follows

closely curricula used on most bioprocessing and process biotechnology courses at senior undergraduate and graduate levels.

Natural Resource and Environmental Economics -

Roger Perman 2013-02-07

Now in its 4th Edition, this book is a comprehensive and contemporary analysis of the major areas of natural resource and environmental economics. All chapters have been updated in light of new developments and changes in the subject, and provide a balance of theory, applications and examples to give a rigorous grounding in the economic analysis of the resource and environmental

issues that are increasingly prominent policy concerns. This text has been written primarily for the specialist market of second and third year undergraduate and postgraduate students of economics. The full text

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eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed.

Aortic Valve Transcatheter Intervention - Marco Zimarino
2021-05-07

Aortic Valve Transcatheter Intervention Calcific aortic stenosis (AS) is the most common heart valve anomaly, with a largely age-dependent prevalence, a calculated annual incidence rate in the range of 4-5% in general populations and up to 6% in patients aged 75 years and over. Surgical aortic valve replacement (SAVR) was previously the only

option available to patients with symptomatic, severe aortic stenosis. After the first-in-human transcatheter aortic valve implantation (TAVI) was performed by Alain Cribier in 2002, the treatment strategy for patients with symptomatic AS has been revolutionized. Since then, TAVI has grown exponentially, as a result of accruing evidence demonstrating safety and efficacy, and reduced invasiveness compared with SAVR. TAVI devices are continuously expanding to include several valve design options. As this strategy is continuously evolving to treat younger patients and lower-risk

populations, aside from the long-term durability of the valve systems, procedural safety will become the focus of newer-generation devices. This book is a practical handbook devoted to the optimization of TAVI procedures, through a focused containment of complications. Through an integrated evaluation of the clinical status, imaging techniques and laboratory findings, the authors provide readers with clear messages on preventive and therapeutic recommendations.

The Anomalous Magnetic

Moment of the Muon - Fred

Jegerlehner 2008

This book reviews the present state of knowledge of the

anomalous magnetic moment $a=(g-2)/2$ of the muon. The muon anomalous magnetic moment is one of the most precisely measured quantities in elementary particle physics and provides one of the most stringent tests of relativistic quantum field theory as a fundamental theoretical framework. It allows for an extremely precise check of the standard model of elementary particles and of its limitations.

Electromagnetic Fields and Waves - Magdy F. Iskander

2000-04-01

Biostatistics - Wayne W. Daniel

2018-11-13

The ability to analyze and

interpret enormous amounts of data has become a prerequisite for success in allied healthcare and the health sciences. Now in its 11th edition, *Biostatistics: A Foundation for Analysis in the Health Sciences* continues to offer in-depth guidance toward biostatistical concepts, techniques, and practical applications in the modern healthcare setting.

Comprehensive in scope yet detailed in coverage, this text helps students understand—and appropriately use—probability distributions, sampling distributions, estimation, hypothesis testing, variance analysis, regression, correlation analysis, and other statistical

tools fundamental to the science and practice of medicine. Clearly-defined pedagogical tools help students stay up-to-date on new material, and an emphasis on statistical software allows faster, more accurate calculation while putting the focus on the underlying concepts rather than the math. Students develop highly relevant skills in inferential and differential statistical techniques, equipping them with the ability to organize, summarize, and interpret large bodies of data.

Suitable for both graduate and advanced undergraduate coursework, this text retains the rigor required for use as a

professional reference.

Bioelectricity - Roger C. Barr

2013-06-29

This text is an introduction to electrophysiology, following a quantitative approach. The first chapter summarizes much of the mathematics required in the following chapters. The second chapter presents a very concise overview of the general principles of electrical fields and current flow, mostly established in physical science and engineering, but also applicable to biological environments. The following five chapters are the core material of this text. They include descriptions of how voltages come to exist across membranes and how these are

described using the Nernst and Goldman equations (Chapter 3), an examination of the time course of changes in membrane voltages that produce action potentials (Chapter 4), propagation of action potentials down fibers (Chapter 5), the response of fibers to artificial stimuli such as those used in pacemakers (Chapter 6), and the voltages and currents produced by these active processes in the surrounding extracellular space (Chapter 7). The subsequent chapters present more detailed material about the application of these principles to the study of cardiac and neural electrophysiology, and include a

chapter on recent developments in membrane biophysics. The study of electrophysiology has progressed rapidly because of the precise, delicate, and ingenious experimental studies of many investigators. The field has also made great strides by unifying the numerous experimental observations through the development of increasingly accurate theoretical concepts and mathematical descriptions. The application of these fundamental principles has in turn formed a basis for the solution of many different electrophysiological problems.

Polymer Physics - Wenbing Hu
2012-11-05

A molecular view on the

fundamental issues in polymer physics is provided with an aim at students in chemistry, chemical engineering, condensed matter physics and material science courses. An updated translation by the author, a renowned Chinese chemist, it has been proven to be an effective source of learning for many years. Up-to-date developments are reflected throughout the work in this concise presentation of the topic. The author aims at presenting the subject in an efficient manner, which makes this particularly suitable for teaching polymer physics in settings where time is limited, without having to sacrifice the

extensive scope that this topic demands.

Modern Electrodynamics -

Andrew Zangwill 2013

An engaging writing style and a strong focus on the physics make this graduate-level textbook a must-have for electromagnetism students.

Rapid Visual Screening of Buildings for Potential Seismic Hazards: Supporting Documentation - 2015

The Rapid Visual Screening (RVS) handbook can be used by trained personnel to identify, inventory, and screen buildings that are potentially seismically vulnerable. The RVS procedure comprises a method and several forms that help users to

quickly identify, inventory, and score buildings according to their risk of collapse if hit by major earthquakes. The RVS handbook describes how to identify the structural type and key weakness characteristics, how to complete the screening forms, and how to manage a successful RVS program.

Optical Properties of Solids -

Frederick Wooten 2013-10-22

Optical Properties of Solids covers the important concepts of intrinsic optical properties and photoelectric emission. The book starts by providing an introduction to the fundamental optical spectra of solids. The text then discusses Maxwell's equations and the dielectric

function; absorption and dispersion; and the theory of free-electron metals. The quantum mechanical theory of direct and indirect transitions between bands; the applications of dispersion relations; and the derivation of an expression for the dielectric function in the self-consistent field approximation are also encompassed. The book further tackles current-current correlations; the fluctuation-dissipation theorem; and the effect of surface plasmons on optical properties and photoemission. People involved in the study of the optical properties of solids will find the book invaluable.

Advanced Methods of Fatigue Assessment - Dieter Radaj
2013-05-13

In five chapters, this volume presents recent developments in fatigue assessment. In the first chapter, a generalized Neuber concept of fictitious notch rounding is presented where the microstructural support factors depend on the notch opening angle besides the loading mode. The second chapter specifies the notch stress factor including the strain energy density and J-integral concept while the SED approach is applied to common fillet welded joints and to thin-sheet lap welded joints in the third chapter. The fourth chapter

analyses elastic-plastic deformations in the near crack tip zone and discusses driving force parameters. The last chapter discusses thermomechanical fatigue, stress, and strain ranges.

Renormalization - Manfred Salmhofer 2013-03-14

This monograph is the first to present the recently discovered renormalization techniques for the Schrödinger and Dirac equations, providing a mathematically rigorous, yet simple and clear introduction to the subject. It develops field-theoretic techniques such as Feynman graph expansions and renormalization, taking pains to make all proofs as simple as

possible by using generating function techniques throughout. Renormalization is performed by using an exact renormalization group differential equation, a technique that provides simple but complete proofs of the theorems.

Statistical Rethinking - Richard McElreath 2018-01-03

Statistical Rethinking: A Bayesian Course with Examples in R and Stan builds readers' knowledge of and confidence in statistical modeling. Reflecting the need for even minor programming in today's model-based statistics, the book pushes readers to perform step-by-step calculations that are

usually automated. This unique computational approach ensures that readers understand enough of the details to make reasonable choices and interpretations in their own modeling work. The text presents generalized linear multilevel models from a Bayesian perspective, relying on a simple logical interpretation of Bayesian probability and maximum entropy. It covers from the basics of regression to multilevel models. The author also discusses measurement error, missing data, and Gaussian process models for spatial and network autocorrelation. By using

complete R code examples throughout, this book provides a practical foundation for performing statistical inference. Designed for both PhD students and seasoned professionals in the natural and social sciences, it prepares them for more advanced or specialized statistical modeling. Web Resource The book is accompanied by an R package (rethinking) that is available on the author's website and GitHub. The two core functions (map and map2stan) of this package allow a variety of statistical models to be constructed from standard model formulas.

Essentials of Electronic Testing

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for Digital, Memory and Mixed-Signal VLSI Circuits - M.

Bushnell 2006-04-11

The modern electronic testing has a forty year history. Test professionals hold some fairly large conferences and numerous workshops, have a journal, and there are over one hundred books on testing. Still, a full course on testing is offered only at a few universities, mostly by professors who have a research interest in this area. Apparently, most professors would not have taken a course on electronic testing when they were students. Other than the computer engineering curriculum being too crowded,

the major reason cited for the absence of a course on electronic testing is the lack of a suitable textbook. For VLSI the foundation was provided by semiconductor device technology, circuit design, and electronic testing. In a computer engineering curriculum, therefore, it is necessary that foundations should be taught before applications. The field of VLSI has expanded to systems-on-a-chip, which include digital, memory, and mixed-signalsubsystems. To our knowledge this is the first textbook to cover all three types of electronic circuits. We have written this textbook for an undergraduate “foundations”

course on electronic testing. Obviously, it is too voluminous for a one-semester course and a teacher will have to select from the topics. We did not restrict such freedom because the selection may depend upon the individual expertise and interests. Besides, there is merit in having a larger book that will retain its usefulness for the owner even after the completion of the course. With equal tenacity, we address the needs of three other groups of readers.

Industrial Instrumentation and Control Systems II - Prasad Yarlagadda 2013-07-15
Collection of selected, peer reviewed papers from the 2013

2nd International Conference on Measurement, Instrumentation and Automation (ICMIA 2013), April 23-24, 2013, Guilin, China. Volume is indexed by Thomson Reuters CPCI-S (WoS). The 503 papers are grouped as follows: Chapter 1: Intelligent Electrician, Electricity Instruments; Chapter 2: Sensors and Navigation Engineering; Chapter 3: Control System Modeling, Simulation and Modelling Technology; Chapter 4: Fluid, Flow and Hydraulic Engineering, Control Technology; Chapter 5: Mechatronics; Chapter 6: Industrial Robot, Power Systems Engineering and Automation; Chapter 7: Auto

Control System; Chapter 8:
CAD / CAM / CAE and Related
Modelling Technologies;
Chapter 9: Electric, Electronic,
Microelectronic, Embedded
Systems and Engineering;
Chapter 10: Communication
and Wireless Engineering
Technology; Chapter 11:
Software Development, WEB-
Service Engineering and
Mathematical Modelling;
Chapter 12: Information
Technologies and Computer
Applications in Industry and
Engineering; Chapter 13:
Network Engineering and
Network Security; Chapter 14:
The Internet of Things, PDM,
ERP and Supply Chain
Management.

Solvent Extraction - Vladimir S
Kislik 2011-11-04
The main challenge in modern
solvent extraction separation is
that most techniques are mainly
empirical, specific and particular
for narrow fields of practice and
require a large degree of
experimentation. This concise
and modern book provides a
complete overview of both
solvent extraction separation
techniques and the novel and
unified competitive
complexation/solvation theory.
This novel and unified
technique presented in the book
provides a key for a preliminary
quantitative prediction of
suitable extraction systems
without experimentation, thus

saving researchers time and resources. Analyzes and compares both classical and new competitive models and techniques Offers a novel and unified competitive complexation / solvation theory that permits researchers to standardize some parameters, which decreases the need for experimentation at R&D Presents examples of applications in multiple disciplines such as chemical, biochemical, radiochemical, pharmaceutical and analytical separation Written by an outstanding scientist who is prolific in the field of separation science

Fluid Dynamics of Oil Production

- Bakytzhan Zhumagulov
2013-09-13
Fluid Dynamics of Oil Production is the perfect guide for understanding and building more accurate oil production models. It is dedicated to the theoretical and numerical study of fluid dynamic models, and much attention is paid to the analysis of the results of the hydrodynamic calculations based on these models and their use in the predictive estimates of the regulatory process of oil production. Other items include: A careful description of over 30 different mathematical models of oil formations Unconventional scenarios, such as models

describing the process of foaming in oil formations and the combination of reservoir flow with liquid flow in wells.

Coverage of more complex and multi-dimensional models, including oil filtration results and methods Create reliable models that confidently show the reservoirs flow patterns Learn about 30 different mathematical models of oil formations

Understand unconventional as well as complex and multi-dimensional models, applicable for today's reservoirs Contains several models developed by the authors

Engineering Vibrations - William J. Bottega 2014-12-11

A thorough study of the

oscillatory and transient motion of mechanical and structural systems, Engineering Vibrations, Second Edition presents vibrations from a unified point of view, and builds on the first edition with additional chapters and sections that contain more advanced, graduate-level topics. Using numerous examples and case studies to r

Brownian Motion, Martingales, and Stochastic Calculus - Jean-François Le Gall 2016-04-28

This book offers a rigorous and self-contained presentation of stochastic integration and stochastic calculus within the general framework of continuous semimartingales.

The main tools of stochastic calculus, including Itô's formula, the optional stopping theorem and Girsanov's theorem, are treated in detail alongside many illustrative examples. The book also contains an introduction to Markov processes, with applications to solutions of stochastic differential equations and to connections between Brownian motion and partial differential equations. The theory of local times of semimartingales is discussed in the last chapter. Since its invention by Itô, stochastic calculus has proven to be one of the most important techniques of modern probability theory, and has been

used in the most recent theoretical advances as well as in applications to other fields such as mathematical finance. Brownian Motion, Martingales, and Stochastic Calculus provides a strong theoretical background to the reader interested in such developments. Beginning graduate or advanced undergraduate students will benefit from this detailed approach to an essential area of probability theory. The emphasis is on concise and efficient presentation, without any concession to mathematical rigor. The material has been taught by the author for several years in graduate courses at

two of the most prestigious French universities. The fact that proofs are given with full details makes the book particularly suitable for self-study. The numerous exercises help the reader to get acquainted with the tools of stochastic calculus.

NATO Glossary of Terms and Definitions - North Atlantic Treaty Organization 2013-03-08
NATO Glossary of terms and definitions (English and French). Listing terms of military significance and their definitions for use in NATO.

Fundamentals of Gas Dynamics - Robert D. Zucker 2002-10-15
Provides all necessary equations, tables, and charts as

well as self tests. Included chapters cover reaction propulsion systems and real gas effects. Written and organized in a manner that makes it accessible for self learning.

Mathematical Analysis - Tom M. Apostol 2004

Declarative Programming and Knowledge Management - Michael Hanus 2014-07-11
This book constitutes the proceedings of the Kiel Declarative Programming Days, KDPD 2013, unifying the following conferences: the 20th International Conference on Applications of Declarative Programming and Knowledge

Management (INAP 2013), the 22nd International Workshop on Functional and (Constraint) Logic Programming (WFLP 2013) and the 27th Workshop on Logic Programming (WLP 2013), held in Kiel, Germany, in September 2013. The 15 papers presented were carefully and reviewed and selected for inclusion in this book. They cover the following topics: logic programming, constraint problem solving, programmable logic solvers, functional programming and constraint programming.

Bifurcation: Analysis,

Algorithms, Applications -

KÜPPER 2013-03-08

The conference on

BIFURCATIONS: ANALYSIS, ALGORITHMS, APPLICATIONS took place in Dortmund in August 18 - 22, 1986. More than 150 Scientists from 16 countries participated in the meeting, among them mathematicians, engineers, and physicists. A broad spectrum of new results on bifurcation was covered by 49 talks. The diversity of the range of treated topics and of involved fields inspired fruitful discussions. 36 refereed papers are contained in these proceedings. The subjects covered treat bifurcation problems, ranging from theoretical investigations to numerical results, with

emphasis placed upon applications. The more theoretical papers include the topics symmetry breaking, delay differential equations, Cornu spirals, homoclinic orbits, and selfsimilarity. Different kinds of bifurcations are treated: Hopf bifurcation, bifurcation from continuous spectrum, complex bifurcation, and bifurcation near tori. Several numerical aspects are discussed, among them continuation, block elimination, and spectral methods. Algorithms are proposed for approximating manifolds, calculating periodic solutions and handling multi-parameter problems. Ample space is

devoted to applications. Classical phenomena from fluid mechanics (such as convection rolls and the Taylor vortex problem), buckling, and reaction-diffusion problems are considered. Other applications of bifurcations include railway vehicle dynamics, computer graphics, semiconductors, drilling processes, simulation of oil reservoirs, and rotor dynamics. The proceedings reflect current research in bifurcation. They are an attempt to bring together researchers from different disciplines to stimulate common effort towards a better understanding and handling of bifurcation problems.