Engineering

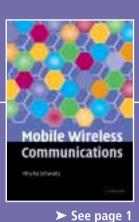


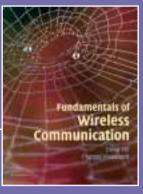
2006

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Highlights

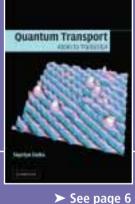


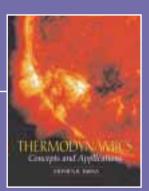


➤ See page 1



➤ See page 1





➤ See page 12

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Electrical and Computer Engineering Wireless

TEXTBOOK

Mobile Wireless Communications

Mischa Schwartz

Columbia University, New York

This book provides a tutorial introduction to digital mobile wireless networks, illustrating theoretical underpinnings with a wide range of real-world examples. In particular, 2.5G and 3G packet-switched systems are discussed in detail, as are wireless LANs and personal-area networks. Many worked examples and homework exercises are provided and a solutions manual is available for instructors. The book is an ideal text for electrical engineering and computer science students taking courses in wireless communications. It will also be an invaluable reference for practising engineers.

- Provides an accessible introduction to the theory and practice of modern wireless networks
- Contains many worked examples and homework exercises
- Solutions manual available for instructors
- 2004 247 x 174 mm 470pp 26 tables 147 exercises 136 figures
- 978 0 521 84347 8 (0 521 84347 2) Hardback £40.00

TEXTBOOK

Fundamentals of Wireless Communication

David Tse

University of California, Berkeley

and Pramod Viswanath

University of Illinois, Urbana-Champaign

The past decade has seen many advances in physical layer wireless communication theory and their implementation in wireless systems. This textbook takes a unified view of the fundamentals of wireless communication and explains the web of concepts underpinning these advances

at a level accessible to an audience with a basic background in probability and digital communication. An abundant supply of exercises and figures reinforce the material in the text. This book is for use on graduate courses in electrical engineering and will also be of great interest to practising engineers.

- Explains cutting-edge ideas in a simple and intuitive way, using discussions and summaries
- Many exercises and figures illustrate the concepts
- Solutions are available for instructors

'Fundamentals of Wireless
Communication is a terrific
introduction to principles of physicallayer design for state-of-the-art
wireless systems. It is a wonderful and
much-needed resource for new
graduate students and practicing
professionals alike. Tse and Viswanath
have written a text of enduring value.'
Professor Gregory W. Wornell, MIT

- 2005 246 x 189 mm 586pp
 203 line diagrams 8 tables 237 exercises
- 978 0 521 84527 4 (0 521 84527 0) Hardback £40.00

TEXTBOOK

Wireless Communications

Andrea Goldsmith

Stanford University, California

This book provides a comprehensive introduction to the basic principles, design techniques and analytical tools of wireless communications, focusing primarily on core principles of wireless system design. It begins with an overview of wireless systems and standards. The characteristics of the wireless channel are then described. including capacity limits. Various modulation and coding schemes are then discussed in detail, including stateof-the-art adaptive modulation and diversity techniques. The concluding chapters deal with multiple and random access in wireless networks, cellular system design, and ad-hoc network

- Emphasizes the core principles of wireless system design
- Covers state-of-the-art topics such as space-time coding, dynamic resource allocation, and ad-hoc networks
- Lecture slides and solutions available for instructors

'Andrea Goldsmith has successfully created a book that balances the

pressing needs of practical design and an appreciation for deep insights that come from theory. Written by a pioneer in adaptive modulation techniques for fading channels, this book is excellent in developing a working knowledge of modern wireless communication techniques that have been invented over the past decade. It is likely to become the standard textbook for wireless communications for the next 10 years.'

Volkan Rodoplu, University of California, Santa Barbara

- 2006 253 x 177 mm 648pp 7 tables
 295 exercises 214 figures
- 978 0 521 83716 3 (0 521 83716 2) Hardback £40.00
- Publication April 2006

TEXTBOOK

Networking Wireless Sensors

Bhaskar Krishnamachari

University of Southern California

This book provides a comprehensive and organized survey of the field of wireless sensor networks, one of the most rapidly developing new information technologies, with a wide range of applications. Ideal for researchers and practioners, it also contains many exercises and can be used in a graduate course on Networks.

- 2005 247 x 174 mm 220pp
 57 line diagrams 1 half-tone 2 tables
 60 exercises
- 978 0 521 83847 4 (0 521 83847 9) Hardback c. £45.00
- Publication November 2005

TEXTBOOK

Principles of Embedded Networked Systems Design

Gregory Pottie

University of California, Los Angeles

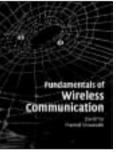
and William Kaiser

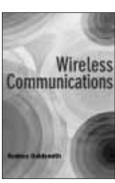
University of California, Los Angeles

Embedded network systems provide a set of technologies that can link the physical world to large scale networks allowing monitoring and control in many physical processes. This book details the fundamentals for this fast-moving field. It contains extensive examples and problems and is ideal for graduate students and practicing engineers.

- 2005 247 x 174 mm 544pp 8 half-tones
 20 tables 169 exercises 232 figures
- 978 0 521 84012 5 (0 521 84012 0) Hardback f50 00
- Publication October 2005











University of California, Irvine

This book covers the fundamental principles of space-time coding for wireless communications over multiple-input multiple-output (MIMO) channels, and the practical coding methods for achieving the performance improvements predicted by the theory. Ideal for graduate students familiar with the basics of digital communications, and engineers implementing the theory in real systems.

- 2005 247 x 174 mm 315pp 117 line diagrams 9 tables 61 exercises
- 978 0 521 84291 4 (0 521 84291 3) Hardback £45.00
- Publication September 2005



Andrew Richardson

This practical handbook provides a comprehensive explanation of the WCDMA air interface of 3rd generation UMTS cellular systems. Addresses all aspects of the WCDMA radio interface from RF and baseband processing to the non-access stratum and RRC layers. An ideal course book and reference for engineers and students.

- 2005 247 x 174 mm 592pp 315 line diagrams 167 tables
- 978 0 521 82815 4 (0 521 82815 5) Hardback £65.00

Next Generation Mobile Access Technologies Implementing TDD

Edited by Harald Haas Universität Bremen

and Stephen McLaughlin University of Edinburgh

Describing the features of various mobile access technologies, this book also assesses their strengths and weaknesses. It explains the underlying principles and practical implementation of time division duplexing and uses real world examples from UMTS, wireless LAN, and Bluetooth systems. For graduate students and practitioners designing and implementing wireless systems.

- 2005 247 x 174 mm 400pp 10 tables 100 figures
- 978 0 521 82622 8 (0 521 82622 5) Hardback c. £48.00
- Publication September 2005

Principles of Space- Time Coding

Giuseppe Caire

University of Southern California

Mohamed Damen

University of Alberta

and Hesham El Gamal

Ohio State University

Space-time coding techniques play a central role in modern wireless communications systems. This self-contained and unified treatment provides a comprehensive description of space-time coding techniques and the most common design approaches. Ideal for graduate courses on space-time coding, it will also appeal to practitioners in wireless communications.

- 2006 247 x 174 mm 350pp 80 figures
- 978 0 521 83790 3 (0 521 83790 1) Hardback c. £45.00
- Publication April 2006

TEXTBOOK

Space-Time Block Coding for Wireless Communications

Erik G. Larsson

Royal Institute of Technology, Stockholm

and Petre Stoica

Uppsala Universitet, Sweden

Space-time coding is an important technique that promises greatly improved performance in wireless networks by using multiple antennas at the transmitter and receiver. Space-Time Block Coding for Wireless Communications provides detailed coverage of a technology that is already embedded in the UMTS and WCDMA mobile standards.

- 2003 247 x 174 mm 302pp 2 tables
 71 exercises 38 figures
- 978 0 521 82456 9 (0 521 82456 7)
 Hardback £45.00

TEXTBOOK

Introduction to Space-Time Wireless Communications

Arogyaswami Paulraj Imperial College, London

Rohit Nabar

ETH Zentrum, Switzerland

and Dhananjay Gore

Qualcomm.Inc, California

This book is an accessible introduction to the theory of space-time wireless communications. The book is an ideal introduction to this rapidly growing field for graduate students and for practitioners in the wireless industry. Homework problems and other supporting material are available on a companion website.

- 2003 247 x 174 mm 308pp 6 tables 141 figures
- 978 0 521 82615 0 (0 521 82615 2) Hardback £45.00

Mobile Web Services

Ariel Pashtan

Aware Networks, Illinois

Mobile web services are designed to provide access to web content anywhere, any time. This book describes the key network elements, software components, and software protocols that are needed to realize these services, including the concept of user context and its potential to create personalized services. The book includes Java and XML code examples and a case study that shows how all the elements of system design fit together. It is aimed at wireless web architects, network managers, and graduate students in electrical engineering and computer science.

- Describes clearly which network elements, software components, and software protocols are needed to implement a mobile web service
- Contains practical code examples in Java and XML
- Includes a detailed case study that illustrates mobile web service implementation in practice
- 2005 247 x 174 mm 284pp 5 half-tones
 91 figures
- 978 0 521 83049 2 (0 521 83049 4) Hardback £35.00







Communications and Signal Processing

TEXTBOOK

TCP/IP Essentials A Lab-Based Approach

Shivendra S. Panwar

Polytechnic University, New York

Shiwen Mao

Virginia Polytechnic Institute and State University

Jeong-dong Ryoo

Electronics and Telecommunications Research Unit, South Korea

and Yihan Li

Polytechnic University, New York

TCP/IP Essentials is a hands-on guide to TCP/IP technologies, and shows how the protocols are implemented in practice. It is aimed at electrical engineering and computer science students, and will also be an ideal guide for engineers studying for networking certifications.

- 2004 247 x 174 mm 284pp 30 tables 103 exercises 86 figures
- 978 0 521 84144 3 (0 521 84144 5) Hardback £50.00
- 978 0 521 60124 5 (0 521 60124 X)
 Paperback £24.99

TEXTBOOK

An Introduction to Statistical Signal Processing

Robert M. Gray

Stanford University, California and Lee D. Davisson

University of Maryland, College Park

This book describes the essential tools and techniques of statistical signal processing. Hundreds of homework problems are included and the book is ideal for graduate students of electrical engineering and applied mathematics. It is also a useful reference for researchers in signal processing and communications.

- 2004 247 x 174 mm 478pp 261 exercises 16 figures
- 978 0 521 83860 3 (0 521 83860 6) Hardback £40.00

TEXTBOOK

Digital Signal Processing

System Analysis and Design

Paulo S. R. Diniz

Universidade Federal do Rio de Janeiro

Eduardo A. B. da Silva

Universidade Federal do Rio de Janeiro

and Sergio L. Netto

Universidade Federal do Rio de Janeiro

This book covers all the major topics in digital signal processing (DSP) design and analysis, supported by MatLab examples and other modelling techniques. An ideal textbook for students, it will also be a useful reference for engineers working on the development of signal processing systems.

'This textbook covers, clearly and concisely, the core material of a DSP course ...'.

Times Higher Education Supplement

- 2002 247 x 174 mm 632pp 222 figures
- 978 0 521 78175 6 (0 521 78175 2) Hardback £45.00

TEXTBOOK

Introduction to Coding Theory

Ron Roth

Technion - Israel Institute of Technology, Haifa

This book introduces the reader to the theoretical foundations of error-correcting codes, with an emphasis on Reed-Solomon codes and their derivative codes. It is designed to be accessible to a broad readership, including students of computer science, electrical engineering, and mathematics, from senior-undergraduate to graduate level.

- 2005 247 x 174 mm 586pp
 66 line diagrams 12 tables 348 exercises
- 978 0 521 84504 5 (0 521 84504 1) Hardback c. £40.00
- Publication December 2005

Survivability and Traffic Grooming in WDM Optical Networks

Arun Somani

Iowa State University

This book provides coverage of survivability (dealing with the risk of losing large volumes of traffic data due to failure of a node or single fiber span) and traffic grooming (managing the increased complexity of smaller user requests over high capacity data pipes); two key issues in modern optical networks.

- 2005 247 x 174 mm 464pp 225 line diagrams 58 tables
- 978 0 521 85388 0 (0 521 85388 5) Hardback c. £55.00
- Publication December 2005

TEXTBOOK

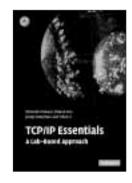
Performance Analysis of Communications Networks and Systems

Piet Van Mieghem

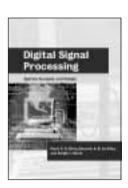
Technische Universiteit Delft, The Netherlands

This rigorous and self-contained book describes mathematical and in particular, stochastic methods to assess the performance of networked systems. It concentrates on probability theory, classical theory of stochastic processes and the newer field of physics of networks. Containing problems and solutions, it is ideal for graduate courses in performance analysis.

- 2005 247 x 174 mm 542pp
 87 line diagrams 3 tables 47 exercises
- 978 0 521 85515 0 (0 521 85515 2) Hardback c. £45.00
- Publication November 2005









Signal Design for **Good Correlation**

For Wireless Communication, Cryptography, and Radar Solomon W. Golomb

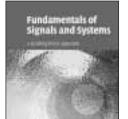
University of Southern California

and Guang Gong

University of Waterloo, Ontario

This comprehensive, up-to-date text and reference presents all the necessary mathematical background to explain how signals with favorable correlation properties are generated, and to show how they satisfy the appropriate correlation constraints. Applications such as CDMA telephony, coded radar, and stream cipher generation are treated in depth.

- 2005 228 x 152 mm 464pp
- 41 line diagrams 34 tables
- 978 0 521 82104 9 (0 521 82104 5) Hardback £40.00
- **Publication September 2005**



TEXTBOOK

Fundamentals of Signals and Systems

A Building Block Approach Philip D. Cha

Harvey Mudd College, California

and John I. Molinder

Harvey Mudd College, California

This innovative textbook provides a solid foundation in both signal processing and systems modeling using a building block approach. Containing many worked examples, homework exercises, and a range of Matlab laboratory exercises, this is an ideal textbook for undergraduate students of engineering, and related disciplines.

- 2005 247 x 174 mm 392pp 349 line diagrams 19 tables 117 exercises
- 978 0 521 84966 1 (0 521 84966 7) Hardback c. £35.00
- **Publication December 2005**





Marwan Al-Akaidi

De Montfort University, Leicester

This book represents the fruit of research carried out to develop novel fractal-based techniques for the analysis of speech and audio signals. Fractal techniques are described in detail with numerous real-world applications and examples. A valuable reference for researchers, academics and engineers.

- 2004 247 x 174 mm 224pp 63 figures
- 978 0 521 81458 4 (0 521 81458 8) Hardback £75.00

TEXTBOOK

Algebraic Codes for Data Transmission

Richard E. Blahut

University of Illinois, Urbana-Champaign

Error-correcting codes play a fundamental role in modern communications and data-storage systems. This book provides an accessible introduction to the basic elements of algebraic codes, and describes a range of important coding techniques, including Reed-Solomon codes, BCH codes, trellis codes, and turbocodes. Written for graduate students and practising engineers.

- 2003 247 x 174 mm 496pp 144 line diagrams 19 tables
- 978 0 521 55374 2 (0 521 55374 1) Hardback £45.00

Bootstrap Techniques for Signal Processing

Abdelhak M. Zoubir

Technische Universität, Darmstadt, Germany

and D. Robert Iskander

Griffith University, Queensland

The statistical bootstrap is a powerful tool in signal processing. This book covers the foundations of the bootstrap, its properties, its strengths, its limitations, and model selection. The theory developed in the book is supported by a number of useful practical examples written in MATLAB.

- 2004 247 x 174 mm 232pp 41 line diagrams 34 tables
- (0 521 83127 X) 978 0 521 83127 7 Hardback £45.00

TEXTBOOK

Theory of Remote Image Formation

Richard E. Blahut

University of Illinois, Urbana-Champaign

There are many applications where images are recorded and then analyzed with specialized processors in order to extract information. Such processing requires the development of algorithms of great precision and sophistication. This book presents a unified treatment of the mathematical methods that underpin the algorithms used in remote image formation.

- 2004 247 x 174 mm 554pp 5 tables 227 exercises 181 figures
- (0 521 55373 3) 978 0 521 55373 5 Hardback £65.00

Two-Dimensional Wavelets and their Relatives

Jean-Pierre Antoine

Université Catholique de Louvain, Belgium

Romain Murenzi

Clark Atlanta University, Georgia

Pierre Vandergheynst

Swiss Federal Institute of Technology, Zürich

and Sved Twareque Ali

Concordia University, Montréal

Two-dimensional wavelets offer a number of advantages over discrete wavelet transforms, in particular for analysis of real-time signals. This book provides thorough and comprehensive treatment of 2-D wavelets, with extensive use of practical applications and illustrative examples throughout. For engineers, physicists and mathematicians.

- 2004 247 x 174 mm 476pp 115 line diagrams 19 half-tones 3 tables 137 figures
- 978 0 521 62406 0 (0 521 62406 1) Hardback f75 00

Multiuser Detection

Sergio Verdú

Princeton University, New Jersey

This comprehensive book is the first to set out the basic details of multiuser detection, one of the most important areas in modern communications technology. It will be an ideal textbook or self-study guide for students and practising engineers, as well as a valuable reference volume for researchers in communications, information theory, and signal processing.

'The topic of multiuser detection lies at the heart of modern terrestrial and satellite-based wireless communication systems. In this book one has on offer a clear and comprehensive exposition by the pioneering researcher in the field. This timely and fundamental book will be welcomed by every communication engineer.

Professor Venkat Anantharam, University of California, Berkeley

- 1998 253 x 177 mm 474pp 114 line diagrams 247 exercises
- 978 0 521 59373 1 (0 521 59373 5) Hardback £55.00



TEXTBOOK

Fundamentals of Error- Correcting Codes

W. Cary Huffman

Loyola University, Chicago

and Vera Pless

University of Illinois, Chicago

Fundamentals of Error Correcting Codes is an in-depth introduction to coding theory from both an engineering and mathematical viewpoint. As well as covering classical topics, much coverage is included of recent techniques which until now could only be found in specialist journals and book publications.

- 2003 247 x 174 mm 664pp
 10 line diagrams 20 tables
- 978 0 521 78280 7 (0 521 78280 5)
 Hardback £55.00

Image Processing and Machine Vision

TEXTBOOK

Machine Vision

Wesley E. Snyder North Carolina State University

and Hairong Qi

University of Tennessee, Knoxville

This book is an introduction to machine vision. It provides all the necessary theoretical tools and shows how they are applied in actual image processing and machine vision systems. A key feature is the inclusion of programming exercises that give insights into the development of practical image processing algorithms.

- 2004 246 x 189 mm 452pp 14 tables 83 exercises 215 figures
- 978 0 521 83046 1 (0 521 83046 X) Mixed Media £40.00

TEXTBOOK

Introduction to Color Imaging Science

Hsien-Che Lee

Foxlink Peripherals Inc.

Color imaging technology has become almost ubiquitous in modern life in the form of monitors, color printers, and digital cameras. This book is a comprehensive guide to the scientific and engineering principles of color imaging. It covers the physics of light and color, how the eye and physical devices capture color images, how color is measured and calibrated, and how

images are processed. It stresses physical principles and includes many real-world examples. For scientists and engineers working in the industry or as a text for graduate courses on color imaging.

- A comprehensive introduction to a rapidly growing, multi-disciplinary field of color imaging science
- Only requires a college-level knowledge of the physics, biology and mathematics behind the field
- Contains many exercises with solutions available by emailing solutions@cambridge.org
- 2005 247 x 174 mm 716pp
 208 line diagrams 16 tables 110 exercises
- 978 0 521 84388 1 (0 521 84388 X)
 Hardback £70.00

Correlation Pattern Recognition

B. V. K. Vijaya Kumar Carnegie Mellon University, Pennsylvania

Abhijit Mahalanobis and Richard D. Juday

This book provides a needed review of the diverse background material needed for correlation pattern recognition, developing the signal processing theory, the pattern recognition metrics, and the practical application know-how from basic premises. Includes case studies of current interest, such as face and fingerprint recognition. For graduate students and practitioners.

- 2005 247 x 174 mm 400pp
- 95 line diagrams 31 half-tones 16 tables – 978 0 521 57103 6 (0 521 57103 0) Hardback £70.00
- Publication October 2005

Mathematics of Digital Images

Creation, Compression, Restoration, Recognition

S. G. Hoggar

University of Glasgow

The coverage in this text is rigorous and practical, with many worked examples, exercises with solutions, pseudocode, and sample calculations on images. Heavily illustrated, it is suited for course use or self-study and will appeal to all working in computer graphics, machine vision and image processing.

- 2005 247 x 174 mm 750pp 30 half-tones
 20 tables 125 exercises 250 figures
- 978 0 521 78029 2 (0 521 78029 2) Hardback c. £45.00
- Publication December 2005

Cellular Neural Networks and Visual Computing

Foundations and Applications Leon O. Chua and Tamas Roska

- 2002 247 x 174 mm 408pp 50 tables 36 exercises 400 figures
- 978 0 521 65247 6 (0 521 65247 2) Hardback £55.00

Electronic and Optoelectronic Devices and Nanotechnology

TEXTBOOK

Introduction to Semiconductor Devices

For Computing and Telecommunications Applications

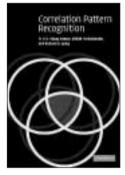
Kevin F. Brennan

Georgia Institute of Technology

From semiconductor fundamentals to state-of-the-art semiconductor devices used in the telecommunications and computing industries, this book provides a solid grounding in the most important devices used in the hottest areas of electronic engineering today. The book includes coverage of MODFETs and MOSFETs, Short channel effects and the challenges faced by continuing miniaturization. Future approaches to computing hardware and RF power amplifiers are also discussed. This is both an excellent senior/graduate text, and a valuable reference for engineers and researchers in the field.

- Covers current and emerging semiconductor devices
- Includes coverage of nanoelectronics
- Presents key devices in telecoms and computing
- 2005 247 x 174 mm 334pp
 157 line diagrams 95 exercises
- 978 0 521 83150 5 (0 521 83150 4) Hardback £40.00











Photonic Devices

Jia-ming Liu

University of California, Los Angeles

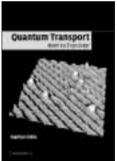
A unique textbook covering every major photonic device, and striking a careful balance between theoretical and practical concepts. Devices covered include optical fibers, couplers, electro-optic devices, magneto-optic devices, lasers and photodetectors. Ideal for senior undergraduate and graduate courses, but being device driven it is also an excellent engineers' reference.

'The book is a welcome addition to the field of photonic engineering and is highly recommended as a suitable text for advanced undergraduate and graduate courses in this area.'

Nicolaas Bloembergen, College of Optical Sciences, University of Arizona

Nobel Laureate, Physics, 1981

- 2005 247 x 174 mm 1104pp 23 tables 320 figures
- 978 0 521 55195 3 (0 521 55195 1)
 Hardback £60.00



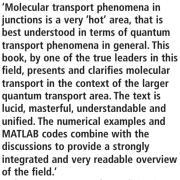
TEXTBOOK

Quantum Transport Atom to Transistor

Supriyo Datta

Purdue University, Indiana

This book presents the conceptual framework underlying the atomistic theory of matter, emphasizing those that relate to current flow. No prior acquaintance with quantum mechanics is assumed. The corresponding MATLAB codes and videostreamed lectures are also available through the web. For senior and graduate students.



Professor Mark Ratner, Professor of Chemistry, Northwestern University

- 2005 247 x 174 mm 418pp 218 line diagrams 4 tables 57 exercises
- 978 0 521 63145 7 (0 521 63145 9) Hardback £40.00

TEXTBOOK

Fundamentals of Quantum Mechanics For Solid State Electronics and Optics

C. L. Tang

Cornell University, New York

The basic concepts of quantum mechanics are explained in this book in a concise and accessible manner. Illustrating real-world applications in many diverse fields, it is suitable for students in electrical engineering, materials science and applied physics. It contains many homework problems and worked examples, with solutions available to instructors.

- 2005 247 x 174 mm 220pp
 40 line diagrams 5 tables 64 exercises
- 978 0 521 82952 6 (0 521 82952 6) Hardback £35.00
- 978 0 521 82952 6 (0 521 82952 6) Hardback f35 00

TEXTBOOK

Smart Electronic Materials

Fundamentals and Applications Jasprit Singh

University of Michigan, Ann Arbor

Smart materials respond rapidly to external stimuli to alter their physical properties. This book explains the underlying physics of a wide range of these materials. It is written for graduate students in electrical engineering, material sciences or applied physics programs. It is also invaluable for engineers in research or industry.

- 2005 247 x 174 mm 432pp 193 line diagrams 43 tables 143 exercises
- 978 0 521 85027 8 (0 521 85027 4) Hardback £45.00

TEXTBOOK

Electronic and Optoelectronic Properties of Semiconductor Structures

Jasprit Singh

University of Michigan, Ann Arbor

This graduate textbook presents the underlying physics behind devices that drive today's technologies. Carefully chosen solved examples are utilized to convey important concepts. Over 250 figures and 200 homework exercises are

included. Real-world applications are highlighted throughout the book, stressing the links between physical principles and actual devices.

'I have often recommended Singh's texts in the past, and I intend to do the same with this present one ... represents good value for money ...'.

Contemporary Physics

- 2003 247 x 174 mm 554pp 30 tables
 199 exercises 255 figures
- 978 0 521 82379 1 (0 521 82379 X) Hardback £45.00

Electronic Composites

Modeling, Characterization, Processing, and MEMS Applications

Minoru Taya

University of Washington

This book describes the processing, simulation, and applications of electronic composites. It contains a comprehensive list of references and is aimed at graduate students of electrical engineering and materials science. It will also be a useful reference for researchers and engineers in the MEMS industry.

- 2005 247 x 174 mm 320pp
 204 line diagrams 24 half-tones 20 tables
- 978 0 521 84174 0 (0 521 84174 7) Hardback £70.00
- Publication September 2005

Analog Optical Links Theory and Practice

Charles H. Cox, III

Mechanik

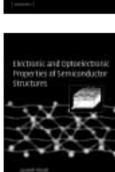
Photonic Systems Inc, Massachusetts

Analog links are used for the distribution of cable TV signals, and in conveying signals to/from antennas. Unlike books on *devices* used in links, this book focuses on the collection of devices that form a *link*, on how the individual device performance effects the link performance - and vice versa.

'... this introductory book can become a standard book for students ...'. Zeitschrift für Angewandte Mathematik und

- 2004 247 x 174 mm 302pp
 107 line diagrams 11 half-tones 14 tables
- 978 0 521 62163 2 (0 521 62163 1) Hardback £70.00







TEXTBOOK

Light-Emitting Diodes

E. Fred Schubert

Rensselaer Polytechnic Institute, New York

This graduate textbook covers all aspects of the technology and physics of infrared, visible-spectrum, and white-light-emitting diodes (LEDs) made from III–V semiconductors. It reviews elementary properties of LEDs such as the electrical and optical characteristics.

'Light-Emitting Diodes is an excellent examination of the physics and technology of semiconductor LEDs. the narration is simple and direct, and the book is well referenced for those seeking a deeper understanding of the topic.'

Physics Today

- 2003 247 x 174 mm 326pp
 - 154 line diagrams 21 half-tones 21 tables
- 978 0 521 53351 5 (0 521 53351 1) Paperback £35.00

TEXTBOOK

NEW EDITION

Applied Quantum Mechanics

Second edition

A. F. J. Levi

University of Southern California

This updated and expanded edition makes quantum mechanics accessible to electrical engineers, mechanical engineers, materials scientists and applied physicists by using real-world applications and engineering examples. Numerous illustrations, exercises, worked examples and problems are included; MATLAB source code and additional materials to support the text are available from the web.

- 2006 247 x 174 mm 550pp 240 line diagrams 69 exercises
- 978 0 521 86096 3 (0 521 86096 2)
 Hardback c.£45.00 / c.\$75.00
- Publication January 2006

TEXTBOOK

Optoelectronics Emmanuel Rosencher and Borge Vinter Translated by P. G. Piva

- 2002 247 x 174 mm 744pp
- 290 line diagrams 10 tables 290 figures — 978 0 521 77129 0 (0 521 77129 3) Hardback £120.00
- 978 0 521 77813 8 (0 521 77813 1) Paperback £45.00

Low-Dimensional Semiconductor Structures

Fundamentals and Device Applications

Edited by Keith Barnham

Imperial College of Science, Technology and Medicine, London

and Dimitri Vvedensky

Imperial College of Science, Technology and Medicine, London

This book provides a seamless, atomsto-devices introduction to the latest quantum heterostructures. It covers their fabrication, their electronic, optical, and transport properties, their role in exploring new physical phenomena, and their utilisation in devices.

- 2001 247 x 174 mm 408pp
 270 line diagrams 5 half-tones 78 exercises
- 978 0 521 59103 4 (0 521 59103 1) Hardback £45.00

High-Speed Heterostructure Devices

From Device Concepts to Circuit Modeling Patrick Roblin and Hans Rohdin

- 2002 247 x 174 mm 724pp 220 line diagrams 40 tables
- 978 0 521 78152 7 (0 521 78152 3) Hardback £75.00

TEXTBOOK

Fundamentals of Modern VLSI Devices

Yuan Taur and Tak H. Ning

- 1998 253 x 177 mm 496pp
 233 line diagrams 10 tables 74 exercises
- 978 0 521 55056 7 (0 521 55056 4) Hardback £75.00
- 978 0 521 55959 1 (0 521 55959 6) Paperback £35.00

Circuits and Systems

An Analog Electronics Companion

Basic Circuit Design for Engineers and Scientists

Scott Hamilton

University of Manchester

Engineers and scientists frequently find themselves having to design electronics circuits even though this may not be their specialty. This book is specifically designed for these situations, and has two major advantages: it assumes little prior knowledge of electronics and it takes a modular approach, so you can find just what you need. The book covers the basic mathematics, physics

and component descriptions and describes commonly encountered circuit elements such as oscillators and filters. PSpice models are included together with the student edition of the PSpice simulation software package.

- Modular approach learn the bits you want, ignore the bits you don't
- Includes fully functional PSpice student edition simulation software and lots of example circuits
- Starts right from the basics

'The aim of this book is to be a guide for neophytes as well as a useful travelling companion for the nature designer confronted with such a bast world. In my opinion it successfully meets these intentions. The subjects are treated in a concise, clear and self-contained fashion, always helped by a broad exhaustive bibliography, and coverall the necessary aspects for electronic design ...'.

Measurement Science and Technology

- 2003 247 x 174 mm 668pp 465 line diagrams 465 figures
- 978 0 521 79838 9 (0 521 79838 8) Hardback £75.00

TEXTBOOK

Hands-On Electronics A Practical Introduction to Analog and Digital Circuits

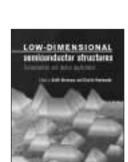
Daniel M. Kaplan

Illinois Institute of Technology

and Christopher G. White Illinois Institute of Technology

Packed full of real circuits to build and test, *Hands-On Electronics* is a unique introduction to analog and digital electronics. Ideal both as a college textbook and for self-study, the friendly style, clear illustrations and construction details included encourage rapid and effective learning of analog and digital circuit design theory.

- 2003 247 x 174 mm 226pp 107 line diagrams 6 tables
- 978 0 521 81536 9 (0 521 81536 3) Hardback £55.00
- 978 0 521 89351 0 (0 521 89351 8) Paperback £19.99









TEXTBOOK

Fast Analytical Techniques for Electrical and Electronic Circuits

Vatché Vorpérian

California Institute of Technology

In this unique book, Vorpérian describes a remarkable alternative to nodal or loop analysis for analysing linear circuits. This technique can be used to solve, almost by inspection, complex circuits in symbolic form and obtain meaningful analytical answers for any transfer function or impedance.

- 2002 247 x 174 mm 490pp
 550 line diagrams
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Practical Interfacing in the Laboratory

Using a PC for Instrumentation, Data Analysis and Control

Stephen E. Derenzo

- 2003 247 x 174 mm 628pp
 360 line diagrams 10 half-tones 54 tables
 5 figures
- 978 0 521 81527 7 (0 521 81527 4) Hardback £45.00

RF and Microwave Engineering

TEXTBOOK

The Design of CMOS Radio-Frequency Integrated Circuits

Second edition

Thomas H. Lee

Stanford University, California

Presenting an expanded and revised new edition of Tom Lee's acclaimed guide to the design of gigahertz RF integrated circuits. A new chapter on the principles of wireless systems providing a bridge between system and circuit issues has been added whilst the chapters on low-noise amplifiers, oscillators and phase noise have been significantly expanded. The chapter on architectures now contains several examples of complete chip designs, including a GPS receiver and a wireless LAN transceiver, that bring together the theoretical and practical elements involved in producing a prototype chip.



- Contains a new chapter on the fundamentals of wireless systems
- Now contains several complete, stageby-stage chip designs, including a GPS receiver and a wireless LAN transceiver

'Tom Lee has written a terrific book. Everyone that visits my office wants to borrow it, and I tell them to go buy their own.'

David Rutledge, California Institute of Technology

- 2004 253 x 177 mm 816pp 562 line diagrams 30 tables 185 exercises
- 978 0 521 83539 8 (0 521 83539 9) Hardback £45.00

TEXTBOOK

Planar Microwave Engineering

A Practical Guide to Theory, Measurement, and Circuits

Thomas H. Lee

Stanford University, California

This book covers everything you need to know to design, build, and test a highfrequency circuit. Microstrip components are discussed, including tricks for extracting good performance from cheap materials. Connectors and cables are also described, as are discrete passive components, antennas, lownoise amplifiers, oscillators, and frequency synthesizers. Practical measurement techniques are presented in detail, including the use of network analyzers, sampling oscilloscopes, spectrum analyzers, and noise figure meters. A CD-ROM that contains a variety of design and analysis programs is included.

- Packed with design tips and tricks of the trade
- Contains many worked examples and design projects
- Includes a CD-ROM with design and analysis software
- '... a fantastic CD-ROM ... that is full of all sorts of useful toys to help engineers design their circuits, both microwave and lower frequencies ... well written, printed and clear ... This book answers all your practical questions (or wakes you up to some you did not know existed!) in this complex field. Most highly recommended for all working in it.'

Circuit World

- 2004 254 x 177 mm 880pp 45 tables 582 figures
- 978 0 521 83526 8 (0 521 83526 7) Hardback £45.00

TEXTBOOK

Computational Electromagnetics for RF and Microwave Engineering

David B. Davidson

University of Stellenbosch, South Africa

Computational Electromagnetics (CEM) has emerged as a crucial enabling technology for radio-frequency, microwave and wireless engineering. The three most popular 'full-wave' methods are introduced in this book and commercial or public domain codes implementing them are applied to real-world engineering problems. For graduate students taking CEM courses and practising engineers.

- 2005 247 x 174 mm 430pp 11 tables 150 figures
- 978 0 521 83859 7 (0 521 83859 2) Hardback £45.00

TEXTBOOK

An Introduction to Radio Frequency Engineering

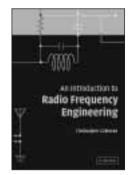
Christopher Coleman University of Adelaide

This book provides an excellent introduction to radio frequency engineering, using a straightforward and easily understood approach combined with numerous worked examples, illustrations and homework problems. Written for upper level undergraduate courses, it will also provide an excellent introduction to the subject for graduate students, researchers and practising engineers.

- 2004 247 x 174 mm 332pp
 338 line diagrams 73 exercises
- 978 0 521 83481 0 (0 521 83481 3) Hardback £40.00







Low-Voltage CMOS RF Frequency Synthesizers

Howard Cam Luong

Hong Kong University of Science and Technology and Gerry Chi Tak Leung

Hong Kong University of Science and Technology

This book provides the reader with architectures and design techniques to enable CMOS frequency synthesizers to operate at low supply voltage at highfrequency with good phase noise and low power consumption. For engineers, managers and researchers working in RFIC design for wireless applications.

- 2004 247 x 174 mm 198pp 171 line diagrams 12 tables
- 978 0 521 83777 4 (0 521 83777 4) Hardback £60.00

The Electronics of Radio **David Rutledge**

- 1999 253 x 177 mm 448pp 261 line diagrams 10 tables 202 exercises
- 978 0 521 64645 1 (0 521 64645 6) Paperback £34.00

TEXTBOOK

Electromagnetic Field Theory Fundamentals

Second edition

Bhag Singh Guru

Kettering University, Michigan

and Hüseyin R. Hiziroglu

Kettering University, Michigan

Guru and Hiziroglu have produced a user-friendly undergraduate text on electromagnetics that will appeal to both students and professors. Includes examples and problems throughout and background revision material where appropriate. MathCad code for many examples in the book and a comprehensive solutions set are available at

www.cambridge.org/0521830168.

- 2004 247 x 174 mm 698pp 350 figures
- 978 0 521 83016 4 (0 521 83016 8) Hardback f45 00

Cylindrical Antennas and **Arrays**

Ronold W. P. King George J. Fikioris and Richard B. Mack

- 2002 247 x 174 mm 648pp 230 line diagrams 40 tables 230 figures
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Electromagnetics

Polarimetric Doppler Weather Radar

Principles and Applications V. N. Bringi

- and V Chandrasekar
- 2001 247 x 174 mm 662pp 5 half-tones 6 tables 350 figures
- 978 0 521 62384 1 (0 521 62384 7) Hardback £90.00

Control Systems

TEXTBOOK

Convex Optimization

Stephen Boyd

Stanford University, California

and Lieven Vandenberghe

University of California, Los Angeles

The focus of this book is on recognizing convex optimization problems and then finding the most appropriate technique for solving them. It contains many worked examples and homework exercises and will appeal to students, researchers and practitioners in fields such as engineering, computer science. mathematics, statistics, finance, and economics.

'Boyd and Vandenberghe have written a beautiful book that I strongly recommend to everyone interested in optimization and computational mathematics: Convex Optimization is a very readable introduction to this modern field of research."

Mathematics of Operations Research

- 2004 246 x 189 mm 730pp 337 exercises 178 figures
- 978 0 521 83378 3 (0 521 83378 7) Hardback £45.00

TEXTBOOK

Applied Optimization Formulation and Algorithms for **Engineering Systems**

Ross Baldick

University of Texas, Austin

This book provides step-by-step descriptions of how to formulate numerical problems so that they can be solved by existing software. A number of engineering case studies are used to illustrate the formulation process. Contains many worked examples and homework exercises and is suitable for students taking courses in optimization.

- 2005 247 x 174 mm 760pp 180 line diagrams 369 exercises
- 978 0 521 85564 8 (0 521 85564 0) Hardback c. £45.00
- Publication October 2005

Computer **Engineering**

TEXTBOOK

Testing of Digital Systems

N. K. Jha

Princeton University, New Jersey

and S. Gupta

University of Southern California

The most comprehensive and wide ranging book of its kind, Testing of Digital Systems covers everything you need to know about how to test semiconductor devices and systems. Written for students and engineers, it is both an excellent senior/graduate level textbook and a valuable reference.

- 2003 247 x 174 mm 1016pp 90 tables 469 figures
- 978 0 521 77356 0 (0 521 77356 3) Hardback £65.00

TEXTBOOK

Applied Linear Optimal Control

Examples and Algorithms

Arthur E. Bryson

Stanford University, California

This book helps readers utilize the theory of optimal control to solve practical problems in the face of uncertainty. It offers hundreds of problems and worked examples, and a CD-ROM supplement containing MATLAB codes of the OPTEST toolbox, as well as code for many of the problems within the text.

'The author stated the goal at the beginning of the book as 'to aid readers in utilizing the theory of optimal control to solve practical problems in the face of uncertainty.' It appears this goal has been achieved. Applied Linear Optimal Control: Examples and Algorithms should be a good addition to the optimal control community. It makes an excellent text for engineering and applied mathematics students who already have some optimal control background. It is strongly recommended as a helpful guide for anyone who desires to learn and apply many of the current state of the art results in optimal control.'

Applied Mechanics Reviews

- 2002 228 x 152 mm 384pp 291 line diagrams 3 tables
- 978 0 521 81285 6 (0 521 81285 2) Mixed Media £90.00
- (0 521 01231 7) 978 0 521 01231 7 Mixed Media £40.00







Designing Digital Computer System

TEXTBOOK

Designing Digital Computer Systems with Veriloa

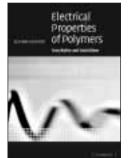
David J. Lilia University of Minnesota

and Sachin S. Sapatnekar

University of Minnesota

This is both an introduction to computer architecture and a guide to using a hardware description language (HDL) to design a simple processor. The authors demonstrate how behavioral and structural models can be developed using the popular Verilog HDL. For senior and graduate students, and practising engineers.

- 2004 247 x 174 mm 176pp 5 tables 42 figures
- 978 0 521 82866 6 (0 521 82866 X) Hardback £35.00



Materials Engineering

NEW EDITION

Electrical Properties of Polymers

Second edition

Tony Blythe and David Bloor

University of Durham

Fully revised and expanded, this new edition of A. Blythe's successful title on electrical properties of polymers covers underlying physical principles of conductive polymers through to modern applications, including light emitting diodes and flexible polymers. This book will appeal to students and researchers working in this evolving field.

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Liquid Crystalline

NEW EDITION

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Second edition

Athene Donald

University of Cambridge

Alan Windle

University of Cambridge

and Simon Hanna

University of Bristol

The new edition of this authoritative guide explains the underlying science and applications of liquid crystalline polymers. A new chapter on liquid biopolymers is included, whilst established and novel applications are reviewed. This will be indispensable to graduate students and researchers in the polymer and materials science field.

'This book admixes chemistry, physics, and mechanics at an accessible level. It also presents a lucid, practical view on potentially useful materials. I find this text rather unique'

Pierre-Gilles de Gennes, College de France, Paris, France

Nobel Prize in Physics 1991

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- **Publication October 2005**

• Briefer, less expensive, and more modern than competition

- 2005 253 x 177 mm 446pp 455 line diagrams 39 half-tones 24 tables 278 exercises
- 978 0 521 84670 7 (0 521 84670 6) Hardback £48.00

Introduction to the **High Temperature Oxidation of Metals**

Second edition

Neil Birks

Gerald H. Meier

University of Pittsburgh

and Frederick S. Pettit

University of Pittsburgh

A straightfoward treatment describing the oxidation processes of metals and alloys at elevated temperatures. This new edition retains the fundamental theory and applies it to reactions in mixed environments and protective techniques. This book will be a useful guide to students and researchers requiring an understanding of this elementary process.

- 2006 247 x 174 mm 367pp
- 175 line diagrams 103 half-tones 7 tables
- 978 0 521 48042 0 (0 521 48042 6) Hardback c. £60.00
- **Publication February 2006**

TEXTBOOK

Mechanical Behavior of Materials

William F. Hosford

University of Michigan, Ann Arbor

The term mechanical behavior encompasses the response of materials to external forces. This text considers a wide range of topics including mechanical testing to determine material properties, plasticity needed for FEM analyses of automobile crashes, means of altering mechanical properties and treatment of several modes of failure. This text fits courses on Mechanical Behavior of Materials taught in departments of Mechanical Engineering and Materials Science. It includes numerous examples and problems for student practice and emphasizes quantitative problem solving. End of the chapter notes are included to increase student's interest.

- Includes numerous examples and endof-chapter problems
- Emphasizes quantitative problem solving



Aerospace Engineering

TEXTBOOK

Jet Propulsion

A Simple Guide to the Aerodynamic and Thermodynamic Design and Performance of Jet Engines

Second edition

Nicholas Cumpsty

University of Cambridge

The second edition of Cumpsty's excellent self-contained introduction to aerodynamic and thermodynamic design of modern civil and military jet engines. Throughly updated and revised, including a new appendix on noise control and expanded treatment of emissions. Suitable for student courses in aircraft propulsion, and an invaluable reference for aerospace engineers.

'I found the book eminently readable, will find it very helpful and will advocate it to students ... and colleagues. One can think of many other engineering topics that would benefit from books having the lucid style and up-to-the-minute credibility of this well-priced one.'

Ray Whitford, Institute of Mechanical Engineering

- 2003 247 x 174 mm 322pp 140 line diagrams 3 half-tones 143 figures
- 978 0 521 54144 2 (0 521 54144 1) Paperback £33.00

TEXTBOOK

Fundamentals of Jet Propulsion with Applications

Ronald D. Flack University of Virginia

An introductory text in air-breathing jet propulsion, covering cycle analysis through component design and system matching. Written for upper-level undergraduate and graduate students, this is an ideal teaching tool, as well as a valuable reference for practising engineers. A CD included with the book contains example files and software.

Cambridge Aerospace Series

- 2005 247 x 174 mm 658pp 150 figures
- 978 0 521 81983 1 (0 521 81983 0) Hardback £60.00

The Cambridge Aerospace Dictionary

Edited by Bill Gunston

The Cambridge Aerospace Dictionary is an authoritative and accessible reference useful to scholars and enthusiasts alike. This dictionary is an essential tool for people who must read and understand technical content regarding the aerospace industry and specific aircraft. The Cambridge Aerospace Dictionary is based on three previous editions of the popular and definitive Janes Aerospace Dictionary by Bill Gunston, OBE, FRaes. For this new edition, Gunston, one of the most widely read and respected aviation writers of all time, added over 15,000 terms, mostly acronyms, in this carefully updated volume.

- Comprehensive, authoritative reference
- Fully revised and up-to-date

'If your job is in aerospace then this will be a useful reference for all sorts of words and weird combinations of letters (including Greek symbology, phonetic alphabets, etc). An indication of an expanding subject is that this updated work incorporates more than 1.500 new terms ...'.

Aviation News

- 2004 253 x 177 mm 750pp
- 978 0 521 84140 5 (0 521 84140 2) Hardback £45.00

Automated Rendezvous and Docking of Spacecraft

Wigbert Fehse

The definitive reference for space engineers on all issues related to rendezvous and docking/berthing (RVD/B), this book provides an overview of the major issues governing approach and mating strategies, and system concepts for rendezvous and docking/berthing. Written for aerospace engineers, students and newcomers to the field.

Cambridge Aerospace Series, 16

- 2003 247 x 174 mm 516pp 245 line diagrams
- 978 0 521 82492 7 (0 521 82492 3) Hardback £80.00

TEXTBOOK

NEW EDITION

Principles of Helicopter Aerodynamics

Second edition

J. Gordon Leishman

University of Maryland, College Park

This text provides a thorough, modern treatment of the aerodynamic principles of helicopters and other rotating-wing vertical lift aircraft. It covers basic topics of aerodynamic analysis, helicopter performance and design, and advanced topics, including airfoil flows and unsteady aerodynamics. Every chapter includes numerous illustrations, a bibliography, and homework problems.

"... Professor Leishman has provided a significant addition to the literature that will prove its worth for many years to come."

Alfred Gessow, Vertiflite

Cambridge Aerospace Series

- 2006 253 x 177 mm 500pp 11 tables 163 exercises
- 978 0 521 85860 1 (0 521 85860 7) Hardback c. £40.00
- Publication March 2006

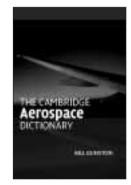
Compendium of Fundamental Solutions in Elastodynamics

Eduardo Kausel

Massachusetts Institute of Technology

This work contains fundamental solutions for classical, canonical, problems in elastodynamics using common format and notation. These formulas describe the displacements and stresses elicited by dynamic sources in solid elastic media. The formulas were programmed in MATLAB. The program listings are available for free download on the book web site.

- 2006 253 x 177 mm 500pp 17 tables
- 978 0 521 85570 9 (0 521 85570 5) Hardback c. £40.00
- Publication February 2006









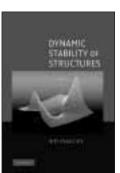
Erian Baskharone

Texas A & M University

This book is ideal for anyone interested in Turbomachinery or Aerospace Propulsion; beginning with a review of basic thermodynamics and fluid mechanics principles, for the reader who will face design decisions in the gas turbine industry. The text is fully supported by over 200 figures, numerous examples, and homework

Cambridge Aerospace Series

- 2006 253 x 177 mm 1200pp 143 exercises 396 figures
- 978 0 521 85810 6 (0 521 85810 0) Hardback c. £45.00
- **Publication March 2006**



Airplane Stability

and Control

Airplane Stability and

ACA Systems and E. Eugene Larrabee

Massachusetts Institute of Technology

From early machines to today's sophisticated aircraft, stability and control have always been crucial considerations in aircraft design. This new edition includes new insights of those active in the field, from pre-Wright airplane builders through to contemporary aircraft designers. Professionals, students, and enthusiasts will appreciate this history of the field.

'This is a splendid book. The authors try to tell the whole story, starting with Cayley. With their immense background, practical as well as academic, the maths are all there but so are countless often fascinating references to actual aircraft ... How often do you find an erudite treatise that is truly un-put-downable?' Bill Gunston, Aerospace Magazine

Cambridge Aerospace Series, 14

- 2002 253 x 177 mm 414pp 153 line diagrams 39 half-tones
- 978 0 521 80992 4 (0 521 80992 4) Hardback £65.00

Dynamic Stability of Structures

Wei-Chau Xie

University of Waterloo, Ontario

This book presents a systematic introduction to the theory of parametric stability of structures under both deterministic and stochastic loadings. A comprehensive range of theories are presented and various application problems are formulated and solved, often using several approaches. This book is suitable as a graduate textbook or for self-study.

- 2005 253 x 177 mm 456pp 22 exercises
- 978 0 521 85266 1 (0 521 85266 8) Hardback c. £65.00
- **Publication December 2005**

TEXTBOOK

Introduction to **Structural Dynamics** and Aeroelasticity

Dewey H. Hodges

Georgia Institute of Technology

and G. Alvin Pierce

Georgia Institute of Technology

This text provides an introduction to structural dynamics and aeroelasticity, with an emphasis on conventional aircraft. The primary areas considered are structural dynamics, static aeroelasticity, and dynamic aeroelasticity. More than one hundred illustrations and tables help clarify the text, while upwards of fifty problems enhance student learning. Suitable for advanced undergraduate or beginning graduate aerospace engineering students.

Cambridge Aerospace Series, 15

- 2002 253 x 177 mm 182pp 41 line diagrams 17 tables 55 exercises
- 978 0 521 80698 5 (0 521 80698 4) Hardback £40.00

TEXTBOOK

Low-Speed Aerodynamics

Second edition

Joseph Katz and Allen Plotkin

Cambridge Aerospace Series, 13

- 2001 253 x 203 mm 630pp
- 398 line diagrams 3 tables 978 0 521 66219 2 (0 521 66219 2) Hardback £100.00
- 978 0 521 66552 0 (0 521 66552 3) Paperback £40.00

Mechanical **Engineering** Thermal-Fluids **Engineering**

TEXTBOOK

Thermal-Fluid Sciences An Integrated Approach **Stephen Turns**

Pennsylvania State University

This text is an integrated approach to thermal-fluid science. Links between theory and applications are stressed through examples and by using the fundamental mass, energy, and momentum conservation laws as organizing principles and by using five practical applications as themes. All examples follow the problem-solving method in Chapter 1.

- 2006 279 x 215 mm 1136pp 800 line diagrams 60 half-tones 600 colour plates 61 tables 2400 exercises
- 978 0 521 85043 8 (0 521 85043 6) Hardback c. £45.00
- Publication January 2006

TEXTBOOK

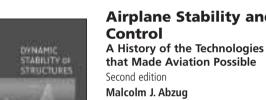
Thermodynamics Concepts and Applications

Stephen Turns

Pennsylvania State University

The focus of *Thermodynamics: Concepts* and Applications is on thermodynamics, while structurally it introduces thermalfluid sciences. 2nd law topics are introduced hierarchically in one chapter, important structure for a beginner. Pedagogy includes objectives, overviews, summaries, historical perspectives, numerous examples, questions and problems with lavish illustrations.

- 2006 279 x 215 mm 766pp 600 line diagrams 40 half-tones 400 colour plates 41 tables 2000 exercises
- 978 0 521 85042 1 (0 521 85042 8) Hardback c. £50.00
- **Publication January 2006**



Internal Flow Concepts and Applications

E. M. Greitzer

Massachusetts Institute of Technology

C. S. Tan

Massachusetts Institute of Technology

and M. B. Graf

Mars & Co

This book describes the analysis and behavior of internal flows encountered in propulsion systems, fluid machinery (compressors, turbines, and pumps) and ducts (diffusers, nozzles and combustion chambers). The focus is on phenomena that are important in setting the performance of a broad range of fluid devices.

Cambridge Engine Technology Series, 3

- 2004 247 x 174 mm 736pp 9 tables 471 figures
- 978 0 521 34393 0 (0 521 34393 3) Hardback £70.00

TEXTBOOK

Fundamentals of Multiphase Flow

Christopher E. Brennen California Institute of Technology

Multiphase flows are flows of mixtures of separate substances, such as bubbles of gas in liquids, solid particles in air, and so on. They are abundant in nature. in industrial processes and in our bodies. This book provides a coherent and unified treatment of multiphase flows with an emphasis on the underlying physical phenomena. It is intended as an important reference text both for researchers and engineers who must deal with the problems of multiphase flows and for scientists interested in the basic phenomena.

- Focus is on presenting a unified treatment of the fundamentals of multiphase flows
- Emphasizes the practical importance of multiphase flows
- Highlights the ubiquity of multiphase flows and the range of contexts in which they need to be understood
- 2005 253 x 177 mm 368pp 166 line diagrams 26 half-tones 3 tables
- 978 0 521 84804 6 (0 521 84804 0) Hardback £50.00

TEXTBOOK

Introduction to **Computational Fluid Dvnamics**

Indian Institute of Technology, Bombay

Anil W. Date

Introduction to Computational Fluid Dynamics is a textbook for advanced undergraduate and first year graduate students in mechanical, aerospace and chemical engineering. The book physical principles with numerous

emphasizes understanding CFD through exercises and examples. Practising engineers will find this particularly useful for reference and for continuing education.

- 2005 253 x 177 mm 400pp 131 line diagrams 35 tables 126 exercises
- 978 0 521 85326 2 (0 521 85326 5) Hardback £35.00
- **Publication October 2005**

TEXTBOOK

Engineering Tribology

John Williams

University of Cambridge

Engineering Tribology is ideal for a first tribology course and as a reference for designers and researchers. Real design problems and solutions, such as those for journal and rolling element bearings, cams and followers, and heavily loaded gear teeth, elucidate concepts and motivate understanding.

- 2005 253 x 177 mm 508pp 223 line diagrams
- 978 0 521 60988 3 (0 521 60988 7) Paperback £40.00

TEXTBOOK

Statistical Thermodynamics Fundamentals and Applications

Normand Laurendeau

Purdue University, Indiana

Statistical Thermodynamics: Fundamentals and Applications discusses the fundamentals and applications of statistical thermodynamics for beginning graduate students. This book features a step-bystep development of the subject with each chapter carefully written to address student difficulties in learning this challenging subject. Both example and prompted homework problems are included.

- 2005 253 x 177 mm 448pp 92 line diagrams 64 tables 117 exercises
- 978 0 521 84635 6 (0 521 84635 8) Hardback £55.00
- Publication November 2005

Liquid Sloshing Dvnamics

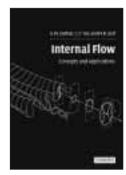
Theory and Applications

Raouf A. Ibrahim

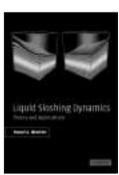
Wayne State University, Michigan

The problem of liquid sloshing in moving or stationary containers remains of concern to aerospace, civil, and nuclear engineers, physicists, designers of road tankers and ship tankers, and mathematicians. This book takes the reader systematically from basic theory to advanced analytical and experimental results in a self-contained and coherent format

- 2005 247 x 174 mm 970pp 366 line diagrams 10 tables
- 978 0 521 83885 6 (0 521 83885 1) Hardback £160.00









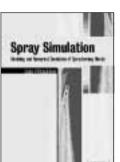
Hydrodynamics of High-Speed Marine Vehicles

Odd Faltinsen

Norwegian University of Science and Technology, Trondheim

Hydrodynamics of High-Speed Marine Vehicles discusses how ocean waves and the water flow affect high-speed vessels and how this depends on the vessel type and forward speed. All aspects of marine hydrodynamics are covered with an emphasis on rational and simplified methods. The book contains many illustrations, examples and exercises.

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- **Publication December 2005**



TEXTBOOK

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University of Ottawa

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Large-Eddy Simulations of Turbulence

M. Lesieur

Laboratoire des Ecoulements, Grenoble

O. Métais

Laboratoire des Ecoulements, Grenoble

and P. Comte

Laboratoire des Ecoulements, Grenoble

Large-Eddy Simulations of Turbulence is an ideal introduction and reference to LES, direct numerical simulation and Revnolds-averaged Navier-Stokes simulation. It features detailed discussion of vorticity, pressure, and the velocity gradient tensor, and an in-depth discussion of spectral subgrid-scale modeling. Also featured is a discussion of large-eddy simulation of compressible flows.

- 2005 253 x 177 mm 248pp 70 line diagrams 48 half-tones 1 table
- 978 0 521 78124 4 (0 521 78124 8) Hardback £40 00
- **Publication October 2005**

TEXTBOOK

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Tamás Tél

Loránd Eötvös University, Budapest

and Márton Gruiz

Loránd Eötvös University, Budapest

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- **Publication November 2005**

Spray Simulation Modeling and Numerical Simulation of Sprayforming

metals Udo Fritschina

Universität Bremen

Spray forming combines the metallurgical processes of metal casting and powder metallurgy to fabricate metal products with enhanced properties. This book provides an introduction to the various modelling and simulation techniques employed in spray forming, and shows how they are applied in process analysis and development.

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 482 line diagrams
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Edited by Erik K. Antonsson California Institute of Technology

and Jonathan Cagan

Carnegie Mellon University, Pennsylvania

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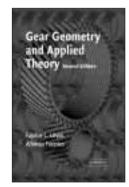
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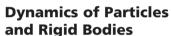
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University of California, San Diego

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Edited by Geoff Hewitt

Imperial College of Science, Technology and Medicine, London

and Christos Vassilicos

Imperial College of Science, Technology and Medicine, London

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Oregon State University

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- **Publication December 2005**

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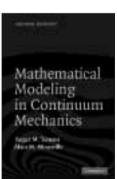
S. Nemat-Nasser

University of California, San Diego

Providing a basic foundation for advanced graduate study and research in solid mechanics, this treatise contains a systematic development of the fundamentals of finite inelastic deformations of heterogeneous materials. The thorough treatment makes the book accessible to graduate students in solid mechanics and the mechanics of materials.

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László P. Kollár

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and George S. Springer Stanford University, California

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University of Wisconsin, Green Bay

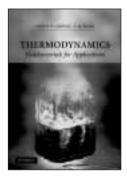
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Tom Beck

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Michael Paulaitis

The Johns Hopkins University

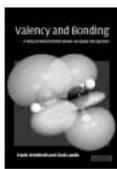
and Lawrence Pratt

Los Alamos National Laboratory

An understanding of statistical thermodynamic molecular theory is fundamental to the appreciation of molecular solutions. This book explains molecular solution modeling utilising the potential distribution theorem. The text is illustrated with models of solution thermodynamics, numerous exercises and is intended for research students working in the field of molecular science.

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An Introduction to **Partial Differential Equations**

Yehuda Pinchover

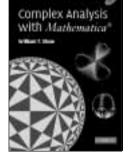
Technion - Israel Institute of Technology, Haifa

and Jacob Rubinstein

Indiana University

A complete introduction to partial differential equations, this textbook provides a rigorous yet accessible guide to students in mathematics, physics and engineering. The presentation is lively and up to date, paying particular emphasis to developing an appreciation of underlying mathematical theory.

- 2005 247 x 174 mm 384pp
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Ulrich Langer, Zentralblatt für Mathematik

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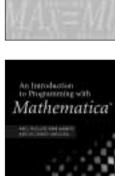
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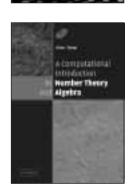
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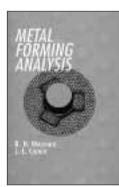
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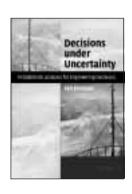
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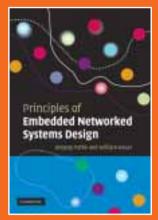
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