

Connecting Great Minds

ADVANCE BOOK INFORMATION

FEBRUARY 2012

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[PHYSICS]

Quantum Physics / Quantum Mechanics / Quantum Information

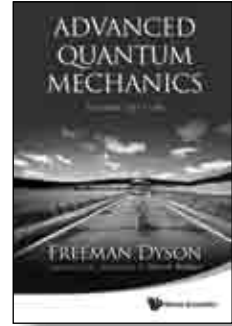
ADVANCED QUANTUM MECHANICS (2ND EDITION)

by **Freeman Dyson** (*Institute for Advanced Study, Princeton, USA*)
translated and transcribed by **David Derbes**
(*Laboratory Schools, University of Chicago, USA*)

Reviews of the First Edition

"The fame of these lectures as well as of this author, together with the enduring interest in their contents attested by this transcription, obviously classify the book as of great interest to students and researchers willing to hear a presentation of quantum electrodynamics from one of the founding fathers."

Zentralblatt MATH



This edition has been printed on the 60th anniversary of the Cornell lectures, and notes from Dyson's lectures at the Les Houches Summer School of Theoretical Physics in 1954.

More details on page 9

RECOMMENDED FOR
BOOKSHOPS

NATURE LOVES TO HIDE (REVISED EDITION)

Quantum Physics and the Nature of Reality, a Western Perspective

by **Shimon Malin** (*Colgate University, USA*)

Reviews of the First Edition

"It will be informative and challenging to scientists and philosophers, and yet it is accessible to general readers."

Abner Shimony, American Journal of Physics

Key Features:

- The first part is a lucid presentation of the ideas of quantum mechanics
- The issues get even clearer through conversation between two fictional characters
- Important yet neglected principles, such as Schrödinger's objectivation, principle, are covered in the book

More details on page 9

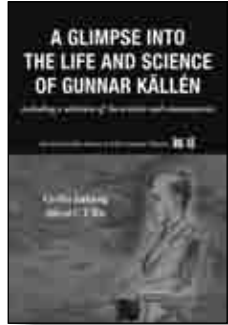
Theoretical Physics

World Scientific Series in 20th Century Physics - Vol. 43

**A GLIMPSE INTO THE LIFE AND SCIENCE OF
GUNNAR KÄLLÉN**

Including a Selection of His Articles and Commentaries

Cecilia Jarlskog (*Lund University, Sweden*) &
Alfred C T Wu (*University of Michigan, USA*)



This unique volume is devoted to the life and scientific work of the distinguished Swedish theoretical physicist Gunnar Källén (1926–1968). In spite of his short life span, Källén had a huge impact on the scientific lives of a large number of young scientists. His sharp intellect and exceptional talent to see through complicated structures and quickly pinpoint the essentials were legendary, as were also his outspokenness and strong opinions. No one who ever met him was left indifferent.

More details on page 10

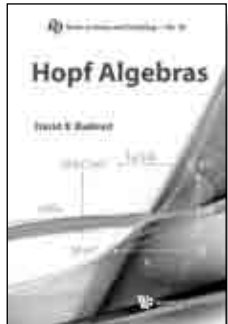
[MATHEMATICS]

Algebra and Number Theory

Series on Knots and Everything - Vol. 49

HOPF ALGEBRAS

by **David E Radford** (*University of Illinois at Chicago, USA*)



The book provides a detailed account of basic coalgebra and Hopf algebra theory with emphasis on Hopf algebras which are pointed, semisimple, quasitriangular, or are of certain other quantum groups. It is intended to be a graduate text as well as a research monograph.

Key Features:

- Provides a good foundation for those who wish to study Hopf algebras on their own
- Provides a firm foundation for those who are more interested in applications to other areas
- Gives many exercises which suggest connections to explore

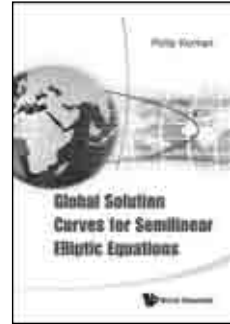
More details on page 10

Analysis and Differential Equations

GLOBAL SOLUTION CURVES FOR SEMILINEAR ELLIPTIC EQUATIONS

by **Philip Korman** (*University of Cincinnati, USA*)

This book provides an introduction to the bifurcation theory approach to global solution curves and studies the exact multiplicity of solutions for semilinear Dirichlet problems, aiming to obtain a complete understanding of the solution set. This understanding opens the way to efficient computation of all solutions. Detailed results are obtained in case of circular domains, and some results for general domains are also presented.



The author is one of the original contributors to the field of exact multiplicity results.

More details on page 11

[ENGINEERING]

Electrical and Electronic Engineering

COST ANALYSIS OF ELECTRONIC SYSTEMS

by **Peter Sandborn** (*University of Maryland, USA*)

This book provides an introduction to the cost modeling for electronic systems that is suitable for advanced undergraduate and graduate students in electrical, mechanical and industrial engineering, and professionals involved with electronics technology development and management. This book melds elements of traditional engineering economics with manufacturing process and life cycle cost management concepts to form a practical foundation for predicting the cost of electronic products and systems. Various manufacturing cost analysis methods are addressed.

More details on page 15

Mechanical Engineering

ENCYCLOPEDIA OF THERMAL PACKAGING Set 1: Thermal Packaging Techniques (A 4-Volume Set)

edited by **Avram Bar-Cohen** (*University of Maryland, USA*)

"The Encyclopedia meets head-on the challenges engineers and researchers face in this era of information abundance. By its breadth of coverage, the Encyclopedia provides a bird's eye view of the techniques and approaches used over the entire field of electronics thermal management. By its depth of coverage, each volume provides the reader with a comprehensive guide to a specific subject area. This is undoubtedly a milestone publication that will serve the industry and the research community for many years to come."

Dr Wataru Nakayama

Research Consultant, ThermTech International

Handbook



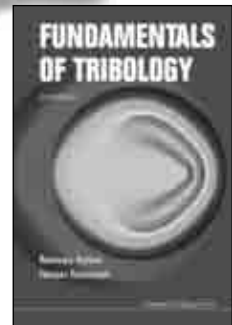
See also **ENCYCLOPEDIA OF THERMAL PACKAGING** — Set 2: Thermal Packaging Tools

More details on page 15

FUNDAMENTALS OF TRIBOLOGY (2ND EDITION)

by **Ramsey Gohar** (*Imperial College, UK*) &
Homer Rahnejat (*Loughborough University, UK*)

Textbook



Fundamentals of Tribology deals with the fundamentals of lubrication, friction and wear. It begins by introducing the readers to the importance of tribology in everyday life and a brief history of the subject. It then describes the nature of rough surfaces and mechanics of contacting elastic solids and their deformation under load and friction in their relative motion. The book goes on to discuss the importance of lubricant rheology with respect to viscosity and density. Then, the principles of hydrodynamic lubrication are covered with derivations of the governing Reynolds and energy equations. Applications of hydrodynamic lubrication in various forms of bearings — journal bearings, thrust bearings and externally pressurized bearings — are outlined. The important and still evolving subject of elastohydrodynamic lubrication is treated in some detail, both at its fundamentals as well as its applications in thin shell or overlay bearings, cam-followers and internal combustion engine pistons.

More details on page 16

[COMPUTER SCIENCE]

Machine Perception / Computer Vision

Communications and Signal Processing - Vol. 4

AUDIO VISUAL PERSON TRACKING

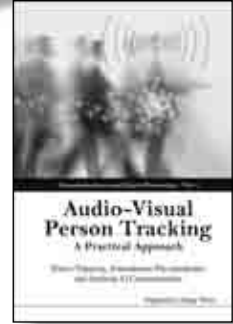
A Practical Approach

by **Fotios Talantzis, Aristodemos Pnevmatikakis**

(Athens Information Technology, Greece) &

Anthony G Constantinides (Imperial College London, UK)

Textbook



This book deals with the creation of the algorithmic backbone that enables a computer to perceive humans in a monitored space. This is performed using the same signals that humans process, i.e., audio and video. Computers reproduce the same type of perception using sensors and algorithms in order to detect and track multiple interacting humans, by way of multiple cues, like bodies, faces or speech. This application domain is challenging, because audio and visual signals are cluttered by both background and foreground objects.

More details on page 17

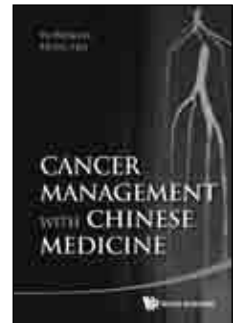
[MEDICINE]

Alternative Medicine / Chinese Medicine

CANCER MANAGEMENT WITH CHINESE MEDICINE

by **Ren Cun Yu** (Beijing Hospital of Traditional Chinese Medicine, China) & **Hong Hai** (Nanyang Technological University, Singapore)

RECOMMENDED FOR BOOKSHOPS



Significant advances made by Western medicine in the treatment of cancer are well-documented, but little has been written in English on complementary holistic treatment with Chinese medical methods that manage its symptoms and ameliorate the side effects of surgery, chemotherapy or radiotherapy. This book explains the complementary approach using cases from the medical files of Professor Rencun Yu, who was trained in Western medical oncology but also practices Chinese medicine. In addition, introductory chapters explain the basic principles of Chinese medicine, while other chapters cover the prevention of cancers through appropriate nutrition and living habits.

More details on page 18

General Medicine

WOLF PRIZE IN MEDICINE 1978–2008

**In 2 Volumes
(With CD-ROM)**



edited by **Sir John Gurdon** (*Cambridge University, UK*)

This volume provides a historical account of the recipients of the Wolf Prize in Medicine and includes their *curriculum vitae* and examples of their most significant publications. Altogether, 25 Wolf Prize recipients are included.



A unique, important book for professionals, science historians and the general public, this book gives ready access to materials which have been important in the recognition of its recipients. Many recipients have extensive publication lists; it is valuable to have a concise account of their *curriculum vitae* as well as list of publications, and especially a reprint of the most significant publications that have resulted in them being awarded the Wolf Prize.

More details on page 19

Pathology

NEW-OPATHIES

An Emerging Molecular Reclassification of Human Disease

edited by **Errol C Friedberg, Diego H Castrillon, Rene L Galindo & Keith Wharton** (*University of Texas Southwestern Medical School, USA*)

This book presents new insights into the etiology and pathogenesis of systemic diseases recently discovered to be due to specific defects in molecular assemblies, organelles, or other subcellular structures. This new information, of great importance to medical students, physicians, and basic scientists, has not been incorporated into major medical textbooks.

The volume covers major new insights into diverse diseases and concepts missing from pathology textbooks. Each of the ten chapters in the book is written by a leader in the field.

More details on page 21

Surgery

Textbook

RECOMMENDED FOR
BOOKSHOPS

SURGICAL TALK (3RD EDITION)

Lecture Notes in Undergraduate Surgery

by **Andrew Goldberg** (*University College London, UK & The Stanmore Royal National Orthopaedic Hospital Trust, UK*) & **Gerard Stansby** (*University of Newcastle, UK & Freeman Hospital, Newcastle Hospital NHS Trust, UK*)

This textbook is an introduction and guide to undergraduate surgery. It has been a bestseller since its first edition in 2001. The philosophy of this book is to focus on the level of knowledge and the approach that would be expected of the better students reaching the end of their undergraduate training. Avoiding a book that is too cumbersome, we have tried to make this book readable and enjoyable as well as using various techniques to help the reader remember key facts. In addition to general surgery, the book contains sections on trauma, orthopaedics, urology and ENT making it the only comprehensive textbook for medical students wishing to learn top tips in surgery.

More details on page 22

[ECONOMICS AND FINANCE]

Money & Banking / Investments / Financial Markets

World Scientific-Nobel Laureate Series - Vol. 2

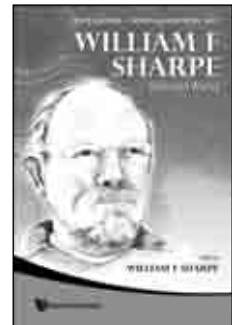
WILLIAM F SHARPE

Nobel Laureate in Economics, 1990

Selected Works

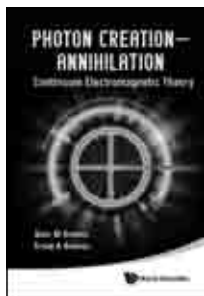
edited by **William F Sharpe** (*Stanford University, USA*)

William F Sharpe received the Nobel Prize in Economics in 1990 for his work on equilibrium pricing in capital markets. He was one of the originators of the Capital Asset Pricing Model, developed the Sharpe Ratio for investment performance analysis, the binomial method for the valuation of options, the gradient method for asset allocation optimization, and returns-based style analysis for evaluating the style and performance of investment funds. This book consists of a collection of Dr Sharpe's work in these and other areas.



More details on page 26

ATOMIC PHYSICS



PHOTON CREATION – ANNIHILATION

Continuum Electromagnetic Theory
by **Dale M Grimes** (*Pennsylvania State University, USA*) & **Craig A Grimes** (*Nanjing University of Technology, China*)

This book provides a classical physics-based explanation of quantum physics, including a full description of photon creation and annihilation, and successful working models of both photons and electrons. Classical field theory, known to fully describe macroscopic scale events, is shown to fully describe atomic scale events, including photon emission and annihilation. As such the book provides a ‘top-down’ unification of electromagnetic and quantum theories.

Contents: Classical Electrodynamics; Properties of Radiation Fields; Transmitting Biconical Antennas; Receiving Biconical Antennas; Classical-Based Quantum Theory; Quantized Energy Exchanges; Matched Multipolar Sources; Spontaneous Emission; Absorption, Emission, Entanglements.

Readership: Students and researchers in atomic physics, theoretical physics and electrodynamics.

420pp
978-981-4383-36-3 US\$108 £71
978-981-4383-37-0(ebook) US\$140

CONDENSED MATTER PHYSICS / SOLID STATE PHYSICS

OPTOISOLATION CIRCUITS

Nonlinear Applications in Engineering
by **Ofer Aluf** (*Ben-Curion University, Israel*)

This book describes a new concept in analyzing circuits, which includes optoisolation elements. The analysis is based on nonlinear dynamics and chaos models and shows comprehensive benefits and results. All conceptual optoisolation circuits are innovative and can be broadly implemented in engineering applications. The dynamics of optoisolation circuits provides several ways to use them in a variety of applications covering wide areas.

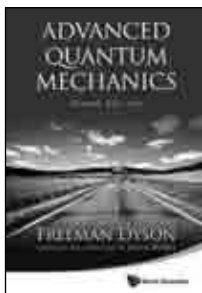
Contents: Optoisolation Products Descriptions; Optoisolation One Dimensional Flow and Bifurcation; Optoisolation Negative Differential Resistance (NDR) Circuits as a Dynamical System; Optoisolation NDR Circuits in Topological Structures; Optoisolation NDR Circuits Behavior Investigation Based on Eigensolutions and Eigenvalues Characteristics and Bifurcation ; Optoisolation’s Circuit Two Dimensional Flow; Optoisolation Circuits with Time Delay Parameters; Optoisolation’s Circuits with Time Delay Parameters-Eigensolutions and Eigenvalues Characteristics and Bifurcation; and other topics.

Readership: Researchers working in the fields of semiconductors, physics or mathematics and PhD students taking graduate courses in physics, mathematics and electronics.

500pp (approx.) Apr 2012
978-981-4317-00-9 US\$128 £79
978-981-4317-01-6(ebook) US\$166

For more information, visit:
www.worldscibooks.com

**QUANTUM PHYSICS /
QUANTUM MECHANICS /
QUANTUM INFORMATION**



**ADVANCED QUANTUM MECHANICS
(2ND EDITION)**

by **Freeman Dyson** (*Institute for Advanced Study, Princeton, USA*)
translated and transcribed by **David Derbes**
(*Laboratory Schools, University of Chicago, USA*)

Reviews of the First Edition

"... one can profit significantly from the insight into the physics beneath the apparatus, and the extensive and detailed treatment of some problems... I highly recommend this book to get a different view on quantum field theory, and also to understand how quantum field theory emerged in its present form at all."

Mathematical Reviews

Renowned physicist and mathematician Freeman Dyson is famous for his work in quantum mechanics, nuclear weapons policy and bold visions for the future of humanity. This edition has been printed on the 60th anniversary of the Cornell lectures, and includes a foreword by science historian David Kaiser, as well as notes from Dyson's lectures at the Les Houches Summer School of Theoretical Physics in 1954.

Readership: Physicists, graduate and undergraduate students.

| | | |
|---------------------------------|-----------------|------------|
| 316pp | Nov 2011 | |
| 978-981-4383-40-0 | US\$92 | £61 |
| 978-981-4383-41-7(pbk) | US\$39 | £26 |
| 978-981-4383-42-4(ebook) | US\$120 | |

**RECOMMENDED FOR
BOOKSHOPS**

**NATURE LOVES TO HIDE
(REVISED EDITION)**

Quantum Physics and the Nature of Reality, a Western Perspective
by **Shimon Malin** (*Colgate University, USA*)

Reviews of the First Edition

"A fascinating introduction to the strange world of quantum physics and its wider implications."

Christian Science Monitor

It is naturally important for any of us to have a correct view of the universe we are in. Having realized that the Newtonian world-view is untenable, this book joins others that are searching for an alternative world view. It is unique in using quantum physics to promote this search.

One aim of the book is to present a lucid exposition of quantum mechanics in terms accessible to the general reader. Another aim is to show that realism and locality are invalid, and should be replaced by a new paradigm according to which the universe is alive. A third aim is to show that the thinking of quantum physicists evokes the philosophies of Plato and Plotinus. The revised edition will include a conversation between two fictional characters to elucidate the discussion of the meaning of wave functions.

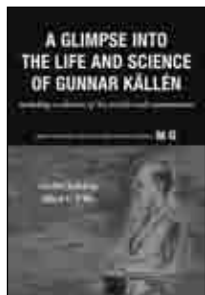
Readership: General public; people interested in quantum physics and philosophy.

| | | |
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| 300pp | Mar 2012 | |
| 978-981-4324-56-4 | US\$70 | £43 |
| 978-981-4324-57-1(pbk) | US\$36 | £22 |
| 978-981-4324-60-1(ebook) | US\$91 | |



BOOKS

THEORETICAL PHYSICS



World Scientific Series in
20th Century Physics - Vol. 43

A GLIMPSE INTO THE LIFE AND SCIENCE OF GUNNAR KÄLLÉN

Including a Selection of His Articles and Commentaries

Cecilia Jarlskog (*Lund University, Sweden*) &
Alfred C T Wu (*University of Michigan, USA*)

This unique volume is devoted to the life and scientific work of the distinguished Swedish theoretical physicist Gunnar Källén (1926–1968). In spite of his short life span, Källén had a huge impact on the scientific lives of a large number of young scientists. His sharp intellect and exceptional talent to see through complicated structures and quickly pinpoint the essentials were legendary, as were also his outspokenness and strong opinions. No one who ever met him was left indifferent.

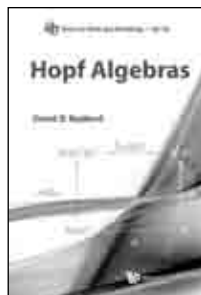
Källén is well known for his work on quantum electrodynamics; for his work with Pauli on the mathematical structure of the Lee Model; and for his work with Arthur Wightman on the analyticity domain of the vacuum expectation value of product of three scalar fields. He is also remembered by many for his textbook on Elementary Particle Physics.

Readership: Graduate students and professionals in theoretical/mathematical physics; general public and historians of science.

| | |
|---------------------------------|---------------------|
| 650pp (approx.) | Feb 2012 |
| 978-981-4307-29-1 | US\$175 £114 |
| 978-981-4307-30-7(ebook) | US\$228 |

[MATHEMATICS]

ALGEBRA AND NUMBER THEORY



Series on Knots and Everything - Vol. 49

HOPF ALGEBRAS

by **David E Radford** (*University of Illinois at Chicago, USA*)

The book provides a detailed account of basic coalgebra and Hopf algebra theory with emphasis on Hopf algebras which are pointed, semisimple, quasitriangular, or are of certain other quantum groups. It is intended to be a graduate text as well as a research monograph.

Contents: Preliminaries; Coalgebras; Representations of Coalgebras; The Coradical Filtration and Related Structures; Bialgebras; The Convolution Algebra; Hopf Algebras; Hopf Modules and Co-Hopf Modules; Hopf Algebras as Modules Over Their Hopf Subalgebras; Integrals; Actions by Bialgebras and Hopf Algebras; Quasitriangular Bialgebras and Hopf Algebras; The Drinfel'd Double of a Finite-Dimensional Hopf Algebra; Co-Quasitriangular Bialgebras and Hopf Algebras; Pointed Hopf Algebras; Finite-Dimensional Hopf Algebras in Characteristic 0.

Readership: Undergraduates and researchers in algebra and number theory.

| | |
|---------------------------------|--------------------|
| 588pp | Dec 2011 |
| 978-981-4335-99-7 | US\$105 £69 |
| 978-981-4338-66-0(ebook) | US\$137 |

ANALYSIS AND DIFFERENTIAL EQUATIONS



GLOBAL SOLUTION CURVES FOR SEMILINEAR ELLIPTIC EQUATIONS

by **Philip Korman** (*University of Cincinnati, USA*)

This book provides an introduction to the bifurcation theory approach to global solution curves and studies the exact multiplicity of solutions for semilinear Dirichlet problems, aiming to obtain a complete understanding of the solution set. This understanding opens the way to efficient computation of all solutions. Detailed results are obtained in case of circular domains, and some results for general domains are also presented.

The author is one of the original contributors to the field of exact multiplicity results.

Contents: Continuation of Solutions in General Domain Curves of Positive Solutions on Balls; Symmetry Breaking; Curves with Infinitely Many Turns; Numerical Computation of Solutions; Solutions of Annular Domains Curves of Solutions to Hamiltonian Systems; S-Shapes Bifurcation Curves for Two Point Problems; Infinitely Many Solution Curves with Pitchfork Bifurcation; Elastic Beam Equations; Prescribed Mean Curvature Equation.

Readership: Graduate students and researchers in analysis and differential equations, and numerical analysis and computational mathematics.

256pp (approx.)

978-981-4374-34-7

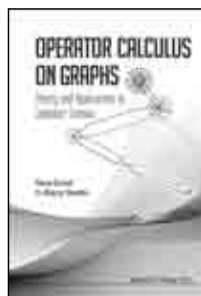
978-981-4374-35-4(ebook)

Feb 2012

US\$90 £59

US\$117

COMBINATORICS AND GRAPH THEORY



OPERATOR CALCULUS ON GRAPHS

Theory and Applications in Computer Science

by **René Schott** (*Université Henri Poincaré, France*) & **G Stacey Staples** (*Southern Illinois University Edwardsville, USA*)

This pioneering book presents a study of the interrelationships among operator calculus, graph theory, and quantum probability in a unified manner, with significant emphasis on symbolic computations and an eye toward applications in computer science.

Presented in this book are new methods, built on the algebraic framework of Clifford algebras, for tackling important real world problems related, but not limited to, wireless communications, neural networks, electrical circuits, transportation, and the world wide web. Examples are put forward in *Mathematica* throughout the book, together with packages for performing symbolic computations.

Contents: Combinatorial Algebras and Their Properties; Combinatorics and Graph Theory; Operator Calculus; Probability on Algebraic Structures; Computational Complexity; Symbolic Computations Using Mathematica.

Readership: Graduate students and researchers in mathematics, physics and computer science.

420pp (approx.)

978-1-84816-876-3

978-1-84816-877-0(ebook)

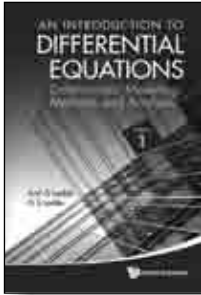
Feb 2012

US\$134 £88

US\$174

MATHEMATICAL MODELING

Textbook



AN INTRODUCTION TO DIFFERENTIAL EQUATIONS (VOLUME 1)

Deterministic Modeling, Methods and Analysis

by **Anil G Ladde** (*Chesapeake Capital Corporation, USA*) & **G S Ladde** (*University of South Florida, USA*)

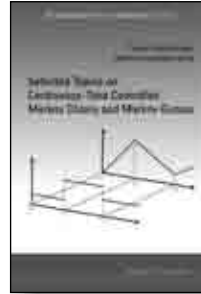
This is a twenty-first century book designed to meet the challenges of understanding and solving interdisciplinary problems.

The book is proactive in preparing for the modeling of dynamic processes in various disciplines. It introduces a “break-down-the-problem” type of approach in a way that creates “fun” and “excitement”. The book presents many learning tools like “step-by-step procedures (critical thinking)”, the concept of “math” being a language, applied examples from diverse fields, frequent recaps, flowcharts and exercises. Uniquely, this book introduces an innovative and unified method of solving nonlinear scalar differential equations. This is called the “Energy/Lyapunov Function Method”. This is accomplished by adequately covering the standard methods with creativity beyond the entry level differential equations course.

Readership: Undergraduates, advanced undergraduates, postgraduates, member of the public with an interest in science and technology.

| | | |
|-------------------------------|-----------------|------------|
| 470pp (approx.) | Feb 2012 | |
| 978-981-4368-89-6 | US\$138 | £91 |
| 978-981-4368-90-2(pbk) | US\$68 | £45 |

STOCHASTIC ANALYSIS



ICP Advanced Texts in Mathematics - Vol. 5

SELECTED TOPICS ON CONTINUOUS-TIME CONTROLLED MARKOV CHAINS AND MARKOV GAMES

by **Tomás Prieto-Rumeau** (*Universidad Nacional de Educación a Distancia, Spain*) & **Onésimo Hernández-Lerma** (*CINVESTAV-IPN, Mexico*)

This book concerns continuous-time controlled Markov chains, also known as continuous-time Markov decision processes. They form a class of stochastic control problems in which a single decision-maker wishes to optimize a given objective function. This book is also concerned with Markov games, where two decision-makers (or players) try to optimize their own objective function. Both decision-making processes appear in a large number of applications in economics, operations research, engineering, and computer science, among other areas. An extensive, self-contained, up-to-date analysis of basic optimality criteria, and advanced optimality criteria is presented. A particular emphasis is made on the application of the results herein: algorithmic and computational issues are discussed, and applications to population models and epidemic processes are shown.

Readership: Graduate students and researchers in the fields of stochastic control and stochastic analysis.

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|---------------------------------|-----------------|------------|
| 300pp (approx.) | Feb 2012 | |
| 978-1-84816-848-0 | US\$98 | £65 |
| 978-1-84816-849-7(ebook) | US\$127 | |

[**NONLINEAR SCIENCE, CHAOS AND DYNAMICAL SYSTEMS**]

COMPLEX SYSTEMS



FOUNDATIONS OF COMPLEX SYSTEMS (2ND EDITION)

Emergence, Information and Prediction
by **G Nicolis** (*University of Brussels, Belgium*)
& **C Nicolis** (*Institut Royal Météorologique de Belgique, Belgium*)

This book provides a self-contained presentation of the physical and mathematical laws governing complex systems. Complex systems arising in natural, engineering, environmental, life and social sciences are approached from a unifying point of view using an array of methodologies such as microscopic and macroscopic level formulations, deterministic and probabilistic tools, modeling and simulation. The book can be used as a textbook by graduate students, researchers and teachers in science, as well as non-experts who wish to have an overview of one of the most open, markedly interdisciplinary and fast-growing branches of present-day science.

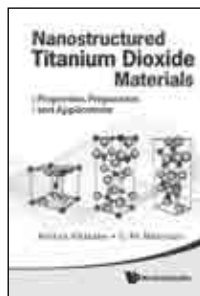
Contents: The Phenomenology of Complex Systems; Deterministic View; Probabilistic Description; Complexity, Entropy and Information; Prediction; Selected Topics; Exercises and Problems; Suggestions for Further Reading.

Readership: Graduate students, researchers, academics and professionals interested in nonlinear science.

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|---------------------------------|-----------------|------------|
| 400pp (approx.) | Feb 2012 | |
| 978-981-4366-60-1 | US\$118 | £78 |
| 978-981-4366-61-8(ebook) | US\$153 | |

[**NANOTECHNOLOGY AND NANOSCIENCE**]

NANOMATERIALS AND NANOSTRUCTURES



NANOSTRUCTURED TITANIUM DIOXIDE MATERIALS

Properties, Preparation and Applications
by **Alireza Khataee** (*University of Tabriz, Iran*)
& **G Ali Mansoori** (*University of Illinois at Chicago, USA*)

During the past decade, research and development in the area of synthesis and applications of different nanostructured titanium dioxide have become tremendous. This book briefly describes properties, production, modification and applications of nanostructured titanium dioxide focusing in particular on photocatalytic activity. The physicochemical properties of nanostructured titanium dioxide are highlighted and the links between properties and applications are emphasized. The preparation of TiO_2 nanomaterials are primarily categorized by their preparation method (sol-gel and hydrothermal processes). Examples of early applications of nanostructured titanium dioxide in dye-sensitized solar cells, hydrogen production and storage, sensors, rechargeable batteries, electrocatalysis, self-cleaning and antibacterial surfaces and photocatalytic cancer treatment are reviewed.

Readership: Advanced undergraduates and graduate students in engineering, nanomaterials, chemical and physical sciences; science and engineering experts interested in nanoscience & nanotechnology.

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|---------------------------------|-------------------|
| 204pp | Nov 2011 |
| 978-981-4374-72-9 | US\$88 £58 |
| 978-981-4374-73-6(ebook) | US\$114 |

BOOKS

RECOMMENDED FOR
BOOKSHOPS**MADAME CHIEN-SHIUNG WU**The First Lady of Physics Research
by **Tsai-Chien Chiang**

Narrating the well-lived life of the “Chinese Madame Curie” — a recipient of the first Wolf Prize in Physics (1978), the first woman to receive an honorary doctorate from Princeton University, as well as the first female president of the American Physics Society — this book provides a comprehensive and honest account of the life of Dr Chien-Shiung Wu, an outstanding and leading experimental physicist of the 20th century.

Contents: Childhood in Liuhe; A Young Wu Chien-Shiung Became the Favorite Student of Hu Shih; Choice of Future; A Rising Star in Berkeley; Youth and Love; Going East; From Nuclear Fission to The Manhattan Project; A World Authority in Beta Decay; Revolution in Parity Conservation; Experiment at 2000 Feet Below Ground; First Female President of the American Physical Society; Love of China; The First Lady of Physics Research; Wu Chien-Shiung; The Scientist.

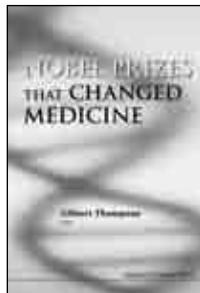
Readership: Students and general public.

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| 300pp (approx.) | Feb 2012 | |
| 978-981-4374-84-2 | US\$98 | £65 |
| 978-981-4368-92-6(pbk) | US\$48 | £32 |
| 978-981-4368-93-3(ebook) | US\$127 | |

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RECOMMENDED FOR
BOOKSHOPS**NOBEL PRIZES THAT CHANGED
MEDICINE**edited by **Gilbert Thompson**
(Imperial College, London, UK)

This book brings together in one volume fifteen Nobel Prize-winning discoveries that have had the greatest impact upon medical science and the practice of medicine during the 20th century and up to the present time. Its overall aim is to enlighten, entertain and stimulate. This is especially so for those who are involved in or contemplating a career in medical research.



Anyone interested in the particulars of a specific award or Laureate can obtain detailed information on the topic by accessing the Nobel Foundation's website. In contrast, this book aims to provide a less formal and more personal view of the science and scientists involved, by having prominent academics write a chapter each about a Nobel Prize-winning discovery in their own areas of interest and expertise.

Contents: Discovery of Insulin; Discovery of Vitamin B12; Discovery of Penicillin; Introduction of Cardiac Catheterization; Discovery of the Structure of DNA; The Interpretation of the Genetic Code; Discovery of Neuropeptides and Radioimmunoassay of Peptide Hormones; Development of Computer Assisted Tomography; and other topics.

Readership: Students, undergraduates, graduates, professionals and members of the general public interested in the impact of Nobel Prize-winning discoveries in medicine.

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| 372pp | Dec 2011 | |
| 978-1-84816-825-1 | US\$118 | £78 |
| 978-1-84816-826-8(pbk) | US\$48 | £32 |
| 978-1-84816-827-5(ebook) | US\$153 | |

[ENGINEERING]

**ELECTRICAL AND
ELECTRONIC ENGINEERING**

**COST ANALYSIS OF ELECTRONIC
SYSTEMS**

by **Peter Sandborn** (*University of Maryland, USA*)

This book provides an introduction to the cost modeling for electronic systems that is suitable for advanced undergraduate and graduate students in electrical, mechanical and industrial engineering, and professionals involved with electronics technology development and management. This book melds elements of traditional engineering economics with manufacturing process and life cycle cost management concepts to form a practical foundation for predicting the cost of electronic products and systems. Various manufacturing cost analysis methods are addressed including: process-flow, parametric, cost of ownership, and activity-based costing. The effects of learning curves, data uncertainty, test and rework processes, and defects are considered. Aspects of system sustainment and life cycle cost modeling including reliability (warranty, burn-in), maintenance (sparing and availability), and obsolescence are treated. Finally, total cost of ownership of systems and return on investment are addressed.

Readership: Graduate students and professionals in electrical and electronic engineering, mechanical engineering and industrial engineering.

300pp (approx.) **Feb 2012**
978-981-4383-34-9 **US\$112 £74**
978-981-4383-35-6(ebook) **US\$146**



MECHANICAL ENGINEERING

Handbook



**ENCYCLOPEDIA OF
THERMAL PACKAGING
Set 1: Thermal Packaging Techniques
(A 4-Volume Set)**

edited by **Avram Bar-Cohen**
(*University of Maryland, USA*)

“By its depth of coverage, each volume provides the reader with a comprehensive guide to a specific subject area. This is undoubtedly a milestone publication that will serve the industry and the research community for many years to come.”

Dr Wataru Nakayama
Research Consultant, ThermTech International

The first set of *The Encyclopedia of Thermal Packaging, Thermal Packaging Techniques*, focuses on the technology “building blocks,” such as microchannel coolers, cold plates, immersion cooling modules, and thermoelectric microcoolers which are the essential elements in the creation of a complete, cost-effective thermal management system.

Readership: Packaging engineers, electronic product development engineers, and product managers, as well as researchers in thermal management of electronic and photonic components and systems, and most beneficial to undergraduate and graduate students studying mechanical, electrical, and electronic engineering.

1400pp (approx.) **Feb 2012**
978-981-4313-78-0 (set) **US\$1580 — £1027**

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till Jun 30, 2012**

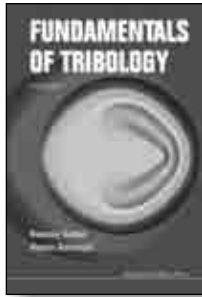
978-981-4313-79-7 **US\$2054 £1356**
(set-ebook)

BOOKS

**FUNDAMENTALS OF TRIBOLOGY
(2ND EDITION)**

by **Ramsey Gohar** (*Imperial College, UK*) &
Homer Rahnejat (*Loughborough University, UK*)

Fundamentals of Tribology deals with the fundamentals of lubrication, friction and wear. It begins by introducing the readers to the importance of tribology in everyday life and a brief history of the subject. It then describes the nature of rough surfaces and mechanics of contacting elastic solids and their deformation under load and friction in their relative motion. The book goes on to discuss the importance of lubricant rheology with respect to viscosity and density. Then, the principles of hydrodynamic lubrication are covered with derivations of the governing Reynolds and energy equations. Applications of hydrodynamic lubrication in various forms of bearings — journal bearings, thrust bearings and externally pressurized bearings — are outlined. The important and still evolving subject of elastohydrodynamic lubrication is treated in some detail, both at its fundamentals as well as its applications in thin shell or overlay bearings, cam-followers and internal combustion engine pistons. The fundamentals of biotribology are also covered, particularly its applications to endo-articular mammalian joints such as hip and knee joints and their arthroplasty. In addition there is a treatment of the rapidly emerging knowledge of tribological phenomena in lightly-loaded vanishing conjunctions (nanotribology) in natural systems and very small devices such as MEMS and high density data storage media.



Readership: Advanced undergraduates and PhD students starting their research, as well as practising engineers and scientists in industry.

460pp (approx.)
978-1-84816-860-2

Nov 2012
US\$90 £59

**[ARCHITECTURE / BUILDING]
MANAGEMENT**

ARCHITECTURE



INCOMPLETE URBANISM

A Critical Urban Strategy for Emerging Economies

by **William S W Lim** (*AA Asia, Singapore & Asian Urban Lab, Singapore*)

foreword by **Leon van Schaik**

Incomplete Urbanism is a dynamic, hybrid interactive concept, which destabilizes the current architectural and urban theories and practices. Its main characteristics are indeterminacy, inconsistency and changeability, which are particularly challenging in the context of the New World Order and the fast emerging global digital network. It is a concept that can be effectively applied to any sizeable section of existing cities without the need for major readjustments and can be implemented at different rates in response to specific local conditions. As for the word 'critical', I use it deliberately in order to convey the essential need to think creatively and positively in a controversial contesting and social-orientated manner about what we do, as it will constructively influence the way we do things that impact our values and social environment.

Readership: Graduate and undergraduate students majoring in architecture, the general public, and policy makers and economists.

144pp
978-981-4383-86-8

Nov 2011
US\$80 £53

978-981-4383-87-5(ebook) US\$104

**ARTIFICIAL INTELLIGENCE /
MACHINE LEARNING**



Advances in Computer Science and Engineering: Texts - Vol. 8

MACHINE LEARNING FOR FINANCIAL ENGINEERING

edited by **László Györfi**, **György Ottucsák**
(*Budapest University of Technology and Economics, Hungary*) & **Harro Walk**
(*Universität Stuttgart, Germany*)

This volume investigates algorithmic methods based on machine learning in order to design sequential investment strategies for financial markets. Such sequential investment strategies use information collected from the market's past and determine, at the beginning of a trading period, a portfolio; that is, a way to invest the currently available capital among the assets that are available for purchase or investment.

Contents: On the History of the Growth Optimal Portfolio (*M M Christensen*); Empirical Log-Optimal Portfolio Selections: A Survey (*L Györfi et al.*); Log-Optimal Portfolio Selection with Proportional Transaction Costs (*L Györfi & H Walk*); Log-Optimal Portfolio with Short Selling and Leverage (*M Horváth & A Urbán*); and other papers.

Readership: Researchers, academics and graduate students in artificial intelligence/machine learning, and mathematical finance/quantitative finance.

260pp (approx.) **Feb 2012**
978-1-84816-813-8 **US\$72 £48**
978-1-84816-814-5(ebook) **US\$94**

**MACHINE PERCEPTION /
COMPUTER VISION**

Textbook

Communications and Signal Processing - Vol. 4

AUDIO VISUAL PERSON TRACKING

A Practical Approach

by **Fotios Talantzis**, **Aristodemos Pnevmatikakis**
(*Athens Information Technology, Greece*) &
Anthony G Constantinides (*Imperial College London, UK*)

This book deals with the creation of the algorithmic backbone that enables a computer to perceive humans in a monitored space. This is performed using the same signals that humans process, i.e., audio and video. Computers reproduce the same type of perception using sensors and algorithms in order to detect and track multiple interacting humans, by way of multiple cues, like bodies, faces or speech. This application domain is challenging, because audio and visual signals are cluttered by both background and foreground objects. First, particle filtering is established as the framework for tracking. Then, audio, visual and also audio-visual tracking systems are separately explained. Each modality is analyzed, starting with sensor configuration, detection for tracker initialization and the trackers themselves. Techniques to fuse the modalities are then considered. Instead of offering a monolithic approach to the tracking problem, this book also focuses on implementation by providing MATLAB code for every presented component.

Readership: Graduate students, academics and researchers in signal processing, machine perception/computer vision and electrical & electronic engineering.

236pp **Dec 2011**
978-1-84816-581-6 **US\$85 £53**

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[LIFE SCIENCES]

BIOTECHNOLOGY

STEM CELLS

New Frontiers in Science & Ethics
 edited by **Muireann Quigley, Sarah Chan & John Harris** (*University of Manchester, UK*)

This book provides high quality chapters each of which deals with different aspects of the stem cell debate, each chapter, in itself, giving an in-depth and comprehensive analysis of its own particular issue (ethical or legal). The scope of this book ranges across a number of different issues in the debate on stem cells, from the ethical challenges of conducting stem cell research to those of the clinical application of stem cell technology.

Fast-moving and ever-changing, stem cell science and research presents ongoing ethical and legal challenges in the UK as well as in many other countries. Each development and innovation throws up new ethical challenges. This is the case even where a new development, for example, induced pluripotent stem cells, initially seems to solve old dilemmas. Sometimes it becomes evident that new science does not in fact solve old problems and the ethical issues remain. In recognition of this, this book tackles these issues, old and new.

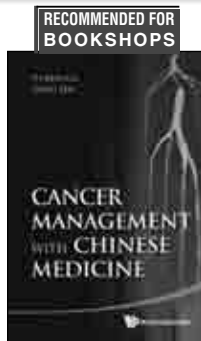
Readership: Researchers and academics in bioethics, healthcare professionals, policy makers.

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| 250pp (approx.) | Feb 2012 | |
| 978-981-4374-24-8 | US\$92 | £61 |
| 978-981-4374-25-5(ebook) | US\$120 | |



[MEDICINE]

ALTERNATIVE MEDICINE / CHINESE MEDICINE



CANCER MANAGEMENT WITH CHINESE MEDICINE

by **Rencun Yu** (*Beijing Hospital of Traditional Chinese Medicine, China*) & **Hai Hong** (*Nanyang Technological University, Singapore*)

Significant advances made by Western medicine in the treatment of cancer are well-documented, but little has been written in English on complementary holistic treatment with Chinese medical methods that manage its symptoms and ameliorate the side effects of surgery, chemotherapy or radiotherapy. This book explains the complementary approach using cases from the medical files of Professor Rencun Yu, who was trained in Western medical oncology but also practices Chinese medicine. In addition, introductory chapters explain the basic principles of Chinese medicine, while other chapters cover the prevention of cancers through appropriate nutrition and living habits.

Readership: (i) Medical professionals, both Western medical doctors and TCM practitioners, particularly those practicing in Australia, Europe and America and (ii) the lay reader who either wants general knowledge on how to prevent cancer or wishes to understand how TCM can help a friend, relative or loved one who suffers from the disease. (iii) Also, libraries of TCM professional associations and teaching institutes.

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| 200pp (approx.) | Feb 2012 | |
| 978-981-4374-74-3 | US\$58 | £38 |
| 978-981-4374-75-0(ebook) | US\$75 | |

BOOKS

GENERAL MEDICINE



WOLF PRIZE IN MEDICINE 1978–2008 In 2 Volumes (With CD-ROM)

edited by **Sir John Gurdon**
(Cambridge University, UK)



This volume provides a historical account of the recipients of the Wolf Prize in Medicine and includes their *curriculum vitae* and examples of their most significant publications. Altogether, 25 Wolf Prize recipients are included.

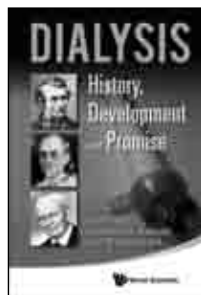
A unique, important book for professionals, science historians and the general public, this book gives ready access to materials which have been important in the recognition of its recipients. Many recipients have extensive publication lists; it is valuable to have a concise account of their *curriculum vitae* as well as list of publications, and especially a reprint of the most significant publications that have resulted in them being awarded the Wolf Prize.

Apart from this valuable volume and the *Nobel Prize in Medicine/Physiology* volumes, there appears to be no equivalent volume in which the achievements of pre-eminent contributors to the field of medicine has been assembled.

Readership: Professionals, science historians and the general public.

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| 1268pp (approx.) | Mar 2012 |
| 978-981-4291-73-6 | US\$188 £117 |
| 978-981-4291-74-3(ebook) | US\$244 |

NEPHROLOGY / RENAL MEDICINE



DIALYSIS

History, Development and Promise
edited by **Todd S Ing** (Loyola University Chicago, USA & Hines Veterans Affairs Hospital, USA),
Mohamed Rahman (Alexian Brothers Medical Center) & **Carl M Kjellstrand**
(Loyola University Chicago, USA)

This book describes the past, present and future of dialysis and dialysis-related renal replacement therapies so that the reader can acquire a firm grasp of the medical management of acute and chronic renal failure. By becoming thoroughly conversant with the past and present of dialysis, a health care professional will be in a much better position to provide the best standard of care to patients suffering from renal failure. As the book highlights the unsolved operational obstacles in the field of renal replacement therapies, future innovators may be inspired to develop novel solutions to tackle these problems. This remarkable work is a must-read not only for healthcare providers in the dialysis industry, but also for patients, dialysis equipment manufacturers as well as pharmaceutical companies.

Readership: Nephrologists, dialysis nurses, dialysis technicians, dialysis-centric scientists and engineers, patients, patients' relatives, dialysis equipment manufacturers, dialysis-related pharmaceutical companies, dialysis-related website operators.

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| 820pp (approx.) | Feb 2012 |
| 978-981-4289-75-7 | US\$140 £92 |
| 978-981-4289-76-4(ebook) | US\$182 |

NUCLEAR MEDICINE / RADIOLOGY / MEDICAL IMAGING

Medical Handbook

HANDBOOK OF NUCLEAR MEDICINE AND MOLECULAR IMAGING

Principles and Clinical Applications
by **E Edmund Kim** (*University of Texas, USA*),
Dong-Soo Lee (*Seoul National University, Korea*),
Richard Baum (*Zentralklinik Bad Berka GmbH, Germany*) & **Ukihide Tateishi**
(*Yokohama City University, Japan*)

This handbook will provide updated information on nuclear medicine and molecular imaging techniques as well as its clinical applications, including radionuclide therapy, to trainees and practitioners of nuclear medicine, radiology and general medicine.

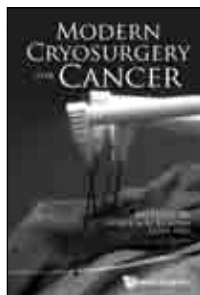
Updated information on nuclear medicine and molecular imaging are vitally important and useful to both trainees and existing practitioners. Imaging techniques and agents are advancing and changing so rapidly that concise and pertinent information are absolutely necessary and helpful. It is hoped that this handbook will help readers be better equipped for the utilization of new imaging methods and treatments using radiopharmaceuticals.

Readership: Trainees and practitioners of nuclear medicine, radiology and general medicine seeking updated information on nuclear medicine and molecular imaging techniques as well as its clinical applications, including radionuclide therapy.

400pp (approx.) **Feb 2012**
978-981-4366-23-6 **US\$128 £84**
978-981-4366-24-3(ebook) **US\$166**

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ONCOLOGY



MODERN CRYOSURGERY FOR CANCER

edited by **Kecheng Xu** (*Chinese Academy of Sciences, China*), **Nikolai N Korpan**
(*Hospital Rudolfinerhaus, Austria*) & **Lizhi Niu**
(*Fuda Cancer Hospital of Guangzhou, China*)

Cryosurgery is a surgical technique that employs freezing to destroy undesirable tissue. From as early as 3500 BC, there is evidence for the use of cold in medicine for the treatment of infected wounds of the chest, fracture of the skull and various injuries.

From the early 21st century, advanced helium-based cryosurgery has been applied worldwide. More than ten thousand patients with malignant and benign tumors have received cryosurgery. It is specially noted that in most cases cryosurgery, as a mini-invasive ablation technique, was performed with percutaneous approach under guidance of CT or ultrasound. Cryosurgery is now one of the more popular techniques in China, with nearly 6000 cases of tumors receiving cryosurgery in the author's institution alone. This book summarizes the experimental and clinical experience and practice of cryosurgery, and describes the basics of cryosurgery and its use in the treatment of various tumors.

Readership: Oncologists, surgeons, medical professionals interested in the technique of cryosurgery.

900pp (approx.) **Mar 2012**
978-981-4329-65-1 **US\$198 £131**
978-981-4329-66-8(ebook) **US\$257**

PATHOLOGY

NEW-OPATHIES

An Emerging Molecular Reclassification of Human Disease

edited by **Errol C Friedberg, Diego H Castrillon, Rene L Galindo & Keith Wharton**

(University of Texas Southwestern Medical School, USA)

This book presents new insights into the etiology and pathogenesis of systemic diseases recently discovered to be due to specific defects in molecular assemblies, organelles, or other subcellular structures. This new information, of great importance to medical students, physicians, and basic scientists, has not been incorporated into major medical textbooks.

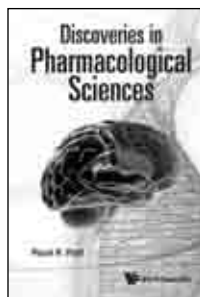
The volume will be an important resource for medical or graduate students, investigators and physicians, as it covers major new insights into diverse diseases and concepts missing from pathology textbooks. Each of the ten chapters in the book is written by a leader in the field.

Readership: Graduate students & researchers in pathology, immunology, cancer research, cell and molecular biology, and pathologists, nephrologists, endocrinologists, immunologists and oncologists.

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| 300pp (approx.) | Feb 2012 | |
| 978-981-4355-68-1 | US\$148 | £98 |
| 978-981-4355-69-8(ebook) | US\$192 | |

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PHARMACOLOGY / DRUG DISCOVERY / PHARMACEUTICALS



DISCOVERIES IN PHARMACOLOGICAL SCIENCES

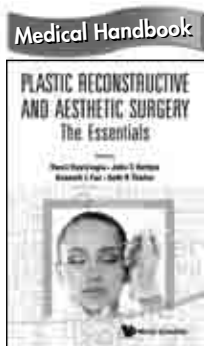
by **Popat N Patil** (*The Ohio State University, USA*)

Throughout history, the perpetuation of species, the need for survival, and human curiosity, intelligence and skills provided the basis for the development of drug science. This unique book contains the history of herbal medicine as it emerged about 5,000 years ago. Recent discoveries in genetics are integrated with the observations in the past. An understanding of the history of drugs and toxic chemicals is essential for the proper utility of these substances by the population at large. The book is written with the purpose to familiarize drug research of the investigators in chemical, pharmaceutical, pharmacological, and biomedical sciences. It is important to note that plants containing morphine, quinine, physostigmine, pilocarpine, atropine, d-tubocurarine, reserpine, tetrahydrocannabinol, cardiac glycosides, ephedrine and colchicine were used by various cultures for centuries. It will serve to enhance the cumulative scientific knowledge of the investigators in drug discovery. It contains a well integrated wealth of information in drug sciences and pharmacotherapeutics. The time, place and the human side of investigators, their portraits with biographical sketches are presented.

Readership: Professionals (pharmacologists, chemists, physicians, science teachers); students (BS, MS, PharmD, PhD); general public with an interest in life sciences.

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| 780pp (approx.) | Feb 2012 | |
| 978-981-4355-07-0 | US\$128 | £83 |
| 978-981-4355-08-7(ebook) | US\$166 | |

PLASTIC SURGERY



PLASTIC RECONSTRUCTIVE AND AESTHETIC SURGERY

The Essentials

edited by **Deniz Dayicioglu** (*University of South Florida, USA*), **Seth R Thaller**, **John C Oeltjen** & **Kenneth L Fan** (*University of Miami, USA*)

This is a concise but comprehensive textbook for plastic surgery residents reviewing for in-service and certifying examinations as well as practicing plastic surgeons preparing for Maintenance of Certification. The book is divided into chapters based on the 24 so-called Index Cases. This will allow a discussion of the procedure prior to embarking on surgery and serve as a basis for the development of a basic fund of knowledge in the specialty of Plastic, Reconstructive, and Aesthetic Surgery. Contributors have been selected based on their clinical expertise and academic excellence.

Readership: Practicing plastic surgeons preparing for Maintenance of Certification examinations, plastic surgery residents, general surgery and other specialty residents rotating through plastic surgery rotations; medical school students rotating through a plastic surgery rotation.

350pp (approx.) **Feb 2012**
978-981-4307-10-9 **US\$108** **£75**
978-981-4307-11-6(ebook) **US\$140**

SURGERY

Textbook

RECOMMENDED FOR
BOOKSHOPS

SURGICAL TALK (3RD EDITION)

Lecture Notes in Undergraduate Surgery by **Andrew Goldberg** (*University College London, UK* & *The Stanmore Royal National Orthopaedic Hospital Trust, UK*) & **Gerard Stansby** (*University of Newcastle, UK* & *Freeman Hospital, Newcastle Hospital NHS Trust, UK*)

This textbook is an introduction and guide to undergraduate surgery. It has been a bestseller since its first edition in 2001. The philosophy of this book is to focus on the level of knowledge and the approach that would be expected of the better students reaching the end of their undergraduate training. Avoiding a book that is too cumbersome, we have tried to make this book readable and enjoyable as well as using various techniques to help the reader remember key facts. In addition to general surgery, the book contains sections on trauma, orthopaedics, urology and ENT making it the only comprehensive textbook for medical students wishing to learn top tips in surgery. Subjects that are poorly covered in all the main texts are dealt with in a tutorial fashion in this book, such as fluid balance management and minor surgical procedures and there is a section on how to problem solve even in the context of areas unknown to the student.

Readership: Third, fourth and final year undergraduates (UK), medical students from countries with similar training to the UK (such as Singapore, Australia, South Africa, India and Pakistan), junior doctors, professions allied to medicine.

400pp (approx.) **Mar 2012**
978-1-84816-614-1(pbk) **US\$48** **£32**

For more information, visit:
www.worldscibooks.com



HU JINTAO

China's Silent Ruler

by **Kerry Brown** (Chatham House, UK)

"Kerry Brown has written an outstandingly insightful book on Hu Jintao. This is not only the first English-language biography of one of the most powerful and also most enigmatic political leaders in the world today, but also an invaluable guide to contemporary China and its prospects."

**Dr Julia Lovell, Birkbeck,
University of London**

Over the six-month period from late 2012 to early 2013, Hu Jintao, the President of the People's Republic of China, Chair of the Central Military Commission, and Party Secretary of the Chinese Communist Party (CCP), will relinquish at least two of his three positions. This timely volume thus aims to provide an analytical assessment of Hu's period in charge of the world's most populous country. It concentrates briefly on his early life and entry into politics, then considers and evaluates his stewardship of the economy and of international affairs, as well as his ideological contribution and leadership of the communist party.

Readership: Undergraduate and postgraduate students, academics & general public interested in China's politics, society and history.

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Readership: Undergraduates, post-graduates, researchers, policy makers who are interested in China's social structure and economic development.

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President, Alpha Nouveau Consulting, Inc.

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[ECONOMICS AND FINANCE]

INTERNATIONAL ECONOMICS

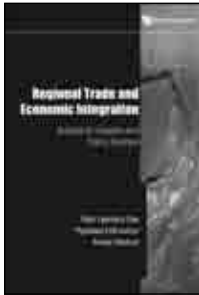
REGIONAL TRADE AND ECONOMIC INTEGRATION

Analytical Insights and Policy Options
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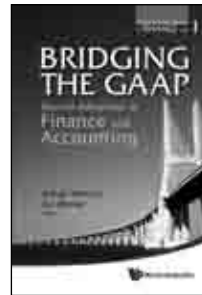
The Asia-Pacific region has emerged as a dominant player in trade and will continue to be an influential component of world trade and economics. This book presents an informative outlook on the various regional and trade agreements (RTAs) and their beneficial effects on bilateral trade. In particular, the authors concentrate on India and China, the two major rising powers, and the impact of exchange of information and sharing of resources between these two countries in wide-ranging areas. It provides an incisive analysis and a roundup of all major RTAs and also presents an overview of all major agreements between the countries involved, which might propel their trade numbers and influence future economic engagements. The book also discusses possible obstacles that are encountered during the implementation of RTAs and circumvention routes that can be taken to ensure the successful execution of the agreements.

Readership: Students of economics, management and business administration, economics professionals, policy makers, government agencies, government ministers, corporate sector professionals.

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MONEY AND BANKING / INVESTMENTS / FINANCIAL MARKETS



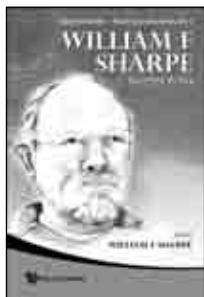
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 (*Université Paris-Sud XI, France*) &
Giosue' Lo Bosco (*Università degli Studi di
 Palermo, Italy*)

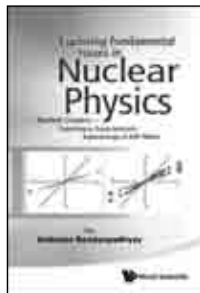
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 or models transcending usual disciplines,
 possibly associated with some lack in the
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Readership: Students, researchers and
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 Institute of Nuclear Physics, India*)

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PROCEEDINGS

[ENGINEERING]

SYSTEMS ENGINEERING

METHODS, MODELS, SIMULATIONS AND APPROACHES TOWARDS A GENERAL THEORY OF CHANGE

Proceedings of the Fifth National Conference on Systems Science

Marche Polytechnic University, Italy,
14 – 16 October 2010

edited by **Gianfranco Minati** (*Italian Systems Society, Italy & Polytechnic University of Milan, Italy*), **Mario Abram** (*Italian Systems Society, Italy*) & **Eliano Pessa** (*Italian Systems Society, Italy & University of Pavia, Italy*)

The book contains the Proceedings of the 2010 Conference of the Italian Systems Society. Papers will deal with the interdisciplinary study of processes of changing related to a wide variety of specific aspects. Attempts to deal with them, based on generalising approaches used to study the movement of bodies and environmental influence, have included ineffective reductionistic simplifications. Indeed changing also relates, for instance, to processes of acquisition and varying properties such as for software; growing and aging biological systems; learning/cognitive systems; and socio-economic systems growing and developing through innovations.

Readership: Graduate students, researchers, academics in nonlinear science, modeling, simulations, and computations.

800pp (approx.) **Feb 2012**
978-981-4383-32-5 **US\$240 £158**
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PHILOSOPHY



WORLDVIEWS, SCIENCE AND US

Bridging Knowledge and Its Implications for Our Perspectives of the World
 Proceedings of the Workshop on Times of Entanglement

Minsheng Art Museum, Shanghai,
21 – 22 September 2010

edited by **Diederik Aerts, Jan Broekaert, Bart D’Hooghe & Nicole Note**
 (*Vrije Universiteit Brussel, Belgium*)

The present volume is part of the ‘Worldviews, Science and Us’ series of proceedings. It contains selected contributions on the subject of bridging knowledge and its implications for our perspectives of the world. This volume also represents the proceedings of the interdisciplinary stream of the international workshop (Part 1) *Times of Entanglement* in the context of the Shanghai World Expo 2010 and, related cutting-edge investigations in the quantum paradigm from discussion panels organized by the Leo Apostel Center for Interdisciplinary studies within the framework of the ‘Research on the Construction of Integrating Worldviews’ research community set up by the Flanders Fund for Scientific Research.

Readership: Professionals, students and general public.

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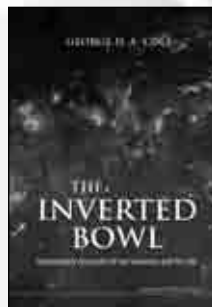
[PHYSICS]

Astrophysics / Astronomy / Cosmology

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by **George H A Cole** (University of Hull, UK)

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By Means of Natural Simple Processes
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What Reviewers Say

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Textbook



[MATHEMATICS]

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Review from the Previous Edition

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World Scientific Series on Nonlinear Science, Series A - Vol. 66

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by **Jean-Marc Ginoux** (*Université du Sud, France*)

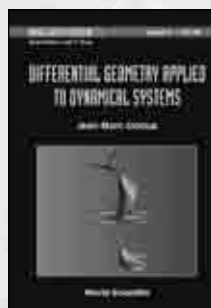


"In sum, this book presents an interesting overview of an alternative, and possibly unifying, geometric framework for the study of general systems of ordinary differential equations. Researchers with a background in dynamical systems theory and an interest in a slightly unorthodox approach to the subject will find it a rewarding read."

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Readership: Graduate students, researchers and academics in nonlinear dynamics.

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[ENVIRONMENTAL SCIENCE]

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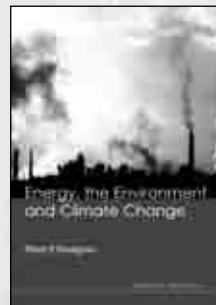
by **Peter E Hodgson** (University of Oxford, UK)

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CHOICE

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[MEDICINE]

Alternative Medicine / Chinese Medicine

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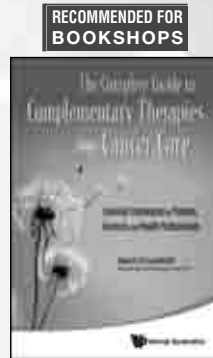
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What Reviewers Say

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The New York Review of Books

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Jeffrey Soule

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Readership: Historians, urban planners, urban anthropologists, geographers, undergraduate and graduate students interested in Beijing's transformation, historical architecture's preservation and city planning.

536pp

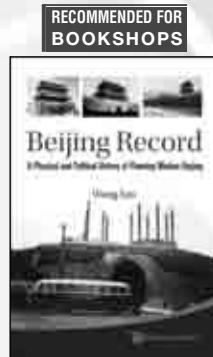
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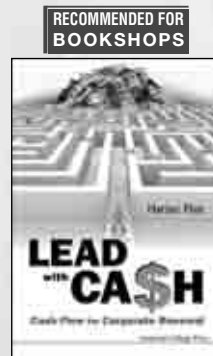
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