

New and Forthcoming titles in Physical Chemistry

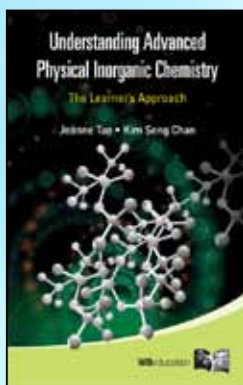
:: Textbook

UNDERSTANDING ADVANCED PHYSICAL INORGANIC CHEMISTRY The Learner's Approach

by **Jeanne Tan** (*Raffles Institution, Singapore*) & **Kim Seng Chan** (*Raffles Institution, Singapore*)

Written for students taking the A-level examinations, this textbook covers essential topics under the University of Cambridge stipulated A-level chemistry syllabus. It is written in such a way as to guide the reader through the understanding and applications of essential chemical concepts by introducing a discourse feature — the asking and answering of questions — that stimulates coherent thinking and hence, elucidates ideas. Based on the Socratic Method, questions are implanted throughout the book to help facilitate the reader's development in forming logical conclusions of concepts. The book helps students to master fundamental chemical concepts in a simple way.

488pp Dec 2010
978-981-4317-26-9(pbk) US\$34 £22

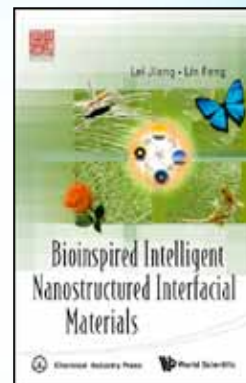


BIOINSPIRED INTELLIGENT NANOSTRUCTURED INTERFACIAL MATERIALS

by **Lei Jiang** (*The Chinese Academy of Sciences, China*) & **Lin Feng** (*Tsinghua University, China*)

This book gives a complementary introduction about natural and artificial micro/nanoscale interfacial materials, devoting largely to the intelligent materials with special wettabilities. Inspired by nature, the authors proposed a concept of "binary cooperative complementary micro/nanoscale interfacial materials". Based on this design concept, the contact and coupling of heterogeneous materials will result in novel properties on the surface or interface of materials, which may create new functional materials and devices. This book combines popular science and professional knowledge, which will be suitable for not only researchers but also science lovers.

364pp Jan 2010
978-981-4280-31-0 US\$153 £101



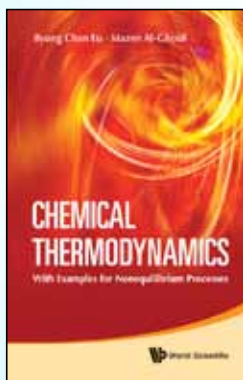
:: Textbook

CHEMICAL THERMODYNAMICS

With Examples for Nonequilibrium Processes
by **Byung Chan Eu** (*McGill University, Canada*) & **Mazen Al-Ghoul** (*American University of Beirut, Lebanon*)

Thermodynamics is an ever evolving subject. This book aims to introduce to advanced undergraduate students and graduate students the fundamental ideas and notions of the first and second laws of thermodynamics in a manner unavailable in the usual textbooks on the subject of thermodynamics. It strives to prepare students for more advanced subjects of irreversible processes, which are encountered in our everyday scientific activities. It also aims to provide them with functional and practical knowledge of equilibrium chemical thermodynamics of reversible processes in real fluids.

468pp Aug 2010
978-981-4295-11-6 US\$90 £56

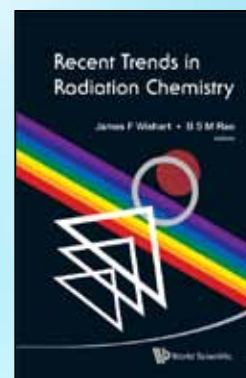


RECENT TRENDS IN RADIATION CHEMISTRY

edited by **James F Wishart** (*Brookhaven National Laboratory, USA*) & **BSM Rao** (*University of Pune, India*)

Recent Trends in Radiation Chemistry is a state-of-the-art review of the present status and future trends in the field of radiation chemistry research. It covers a broad spectrum of topics, ranging from the historical perspective, instrumentation of accelerators in the nanosecond to femtosecond region, through the use of radiation chemical methods in the study of antioxidants and nanomaterials, radiation-induced DNA damage by ionizing radiation involving both direct and indirect effects, to ultrafast events in free electron transfer, radiation-induced processes at solid-liquid interfaces and the recent work on infrared spectroscopy and radiation chemistry.

636pp Feb 2010
978-981-4282-07-9 US\$112 £74
978-981-4282-09-3(ebook) US\$146



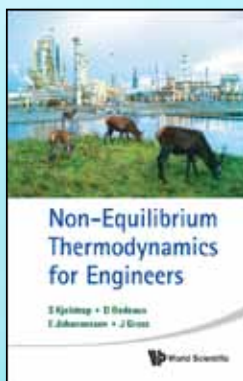
:: Textbook

NON-EQUILIBRIUM THERMODYNAMICS FOR ENGINEERS

by **S Kjelstrup** (*Norwegian University of Science and Technology, Norway*), **D Bedeaux** (*Norwegian University of Science and Technology, Norway*), **E Johannessen** (*Statoil ASA, Norway*), & **J Gross** (*University of Stuttgart, Germany*)

The book describes in a simple and practical way what non-equilibrium thermodynamics is and how it can add to engineering fields. It introduces the entropy balance as an additional equation to use, to create consistent thermodynamic models, and a systematic method for minimizing energy losses that are connected with transport of heat, mass, charge, momentum and chemical reactions.

272pp Jun 2010
978-981-4322-15-7 US\$68 £42



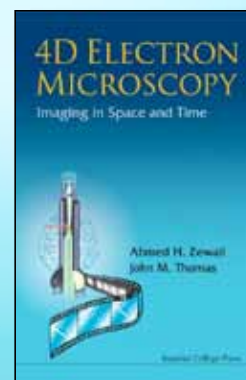
4D ELECTRON MICROSCOPY Imaging in Space and Time

by **Ahmed H Zewail** (*California Institute of Technology, USA*) & **John M Thomas** (*University of Cambridge, UK*)

"This is a unique and ground-breaking book. For the first time it includes the important time dimension in electron microscopy, revealing time-resolved electron micrographs and diffraction patterns on an almost unbelievably fast time scale. The book is written with great clarity and is lavishly illustrated with some stunning micrographs."

Professor Colin Humphreys, Cambridge University, UK

360pp Dec 2009
978-1-84816-390-4 US\$88 £66
978-1-84816-400-0(pbk) US\$48 £36
978-1-84816-391-1(ebook) US\$114



:: Textbook

World Scientific Series in Contemporary Chemical Physics - Vol. 23

LIQUID CRYSTALS, LAPTOPS AND LIFE

by **Michael R Fisch** (*Kent State University, USA*)

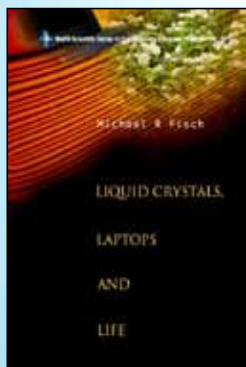
Liquid Crystals, Laptops and Life connects the laptop computer with life itself via liquid crystals, the phases of matter essential to both. In the process it provides an integrated introduction to those parts of chemistry and physics that are necessary for understanding the basic science and technology embedded in the laptop and in life. This book can be understood by students with a good background in high school chemistry and physics; yet it can also serve as a primer for scientists who are not well versed in the areas covered.

"In a book this size it would be impossible to explore the depths of each topic; but Fisch builds a good set of models and explanations as he goes. If readers want to learn what underlies much of modern technology as well as a little about the chemistry of life, they can find a good introduction in this book."

Choice

Readership: Undergraduates in chemistry, physics, biology and materials science; general science readers.

376pp Jul 2004
978-981-238-901-5 US\$137 / £90



:: Textbook

BASIC CHEMICAL THERMODYNAMICS

(Fifth Edition)

by **E Brian Smith** (*Former Master of St Catherine's College, Oxford, UK & Vice-Chancellor of Cardiff University, UK*)

This widely acclaimed text, now in its fifth edition and translated into many languages, continues to present a clear, simple and concise introduction to chemical thermodynamics. An examination of equilibrium in the everyday world of mechanical objects provides the starting point for an accessible account of the factors that determine equilibrium in chemical systems. This straightforward approach leads students to a thorough understanding of the basic principles of thermodynamics. The book also discusses the problems of non-ideal solutions and the concept of activity, and provides an introduction to the molecular basis of thermodynamics.

Over five editions, the views of teachers of the subject and their students have been incorporated. The result is a little more rigour in specifying the dimensions within logarithmic expressions, the addition of more worked examples and the inclusion of a simple treatment of the molecular basis of thermodynamics. Students on courses in thermodynamics will continue to find this popular book an excellent introductory text.

Readership: Undergraduates studying biological and physical sciences who require a simple introduction to chemical thermodynamics.

180pp Apr 2004
978-1-86094-445-1 US\$53 / £33
978-1-86094-446-8(pbk) US\$31 / £20



:: Textbook

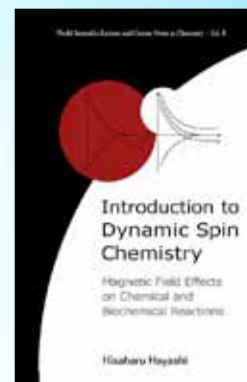
World Scientific Lecture and Course Notes in Chemistry - Vol. 8

INTRODUCTION TO DYNAMIC SPIN CHEMISTRY

Magnetic Field Effects on Chemical and Biochemical Reactions
by **Hisaharu Hayashi** (*RIKEN, The Institute of Physical and Chemical Research, Japan*)

This book presents a detailed account of one of the most mysterious problems in science — whether ordinary magnetic fields can exert an appreciable influence on chemical and biochemical reactions. The first aim of the book is to introduce this research, through theoretical and dynamic spin chemistry, to graduate students and researchers, by means of detailed theoretical and experimental descriptions. The second aim is to review typical recent investigations, which will stimulate new interest and applications in the 21st century.

268pp Mar 2004
978-981-238-423-2 US\$66 £43
978-981-256-265-4(ebook) US\$86

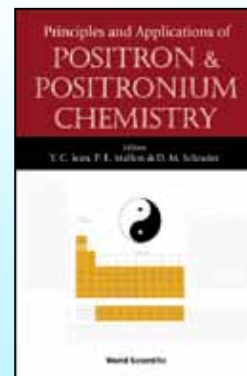


PRINCIPLES AND APPLICATIONS OF POSITRON AND POSITRONIUM CHEMISTRY

edited by **Y C Jean** (*University of Missouri-Kansas City, USA*), **P E Mallon** (*University of Stellenbosch, South Africa*), & **D M Schrader** (*Marquette University, USA*)

This book provides a comprehensive description of the principles and applications of positron and positronium chemistry. Pedagogical and tutorial in nature, it will be ideal for graduate students and researchers in the area of positron annihilation spectroscopy. The contributing authors are authoritative scientists prominent in the frontiers of research, actively pursuing positron annihilation research on chemical and applied systems.

424pp Apr 2003
978-981-238-144-6 US\$140
£92
978-981-277-561-0(ebook) US\$182

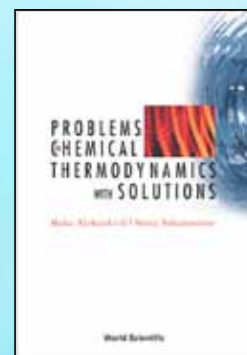


PROBLEMS IN CHEMICAL THERMODYNAMICS, WITH SOLUTIONS

by **Maka Aleksishvili** (*Tbilisi State University, Georgia*) & **Shota Sidamonidze** (*Tbilisi State University, Georgia*)

The methods of chemical thermodynamics are effectively used in many fields of science and technology. Mastering these methods and their use in practice requires profound comprehension of the theoretical questions and acquisition of certain calculating skills. This book is useful to undergraduate and graduate students in chemistry as well as chemical, thermal and refrigerating technology; it will also benefit specialists in all other fields who are interested in using these powerful methods in their practical activities.

292pp Nov 2002
978-981-238-076-0 US\$53 £35
978-981-277-705-8(ebook) US\$69



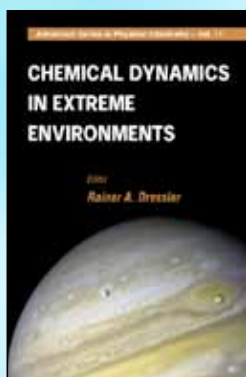
New and Forthcoming titles in Physical Chemistry

Advanced Series in Physical Chemistry - Vol. 11

CHEMICAL DYNAMICS IN EXTREME ENVIRONMENTS

edited by **Rainer A Dressler** (*Air Force Research Laboratory, USA*)

This book illustrates the importance of detailed chemical dynamics and the role it plays in the phenomenology of a number of extreme environments. Each chapter addresses one or more extreme environments, outlines the associated chemical mechanisms of relevance, and then covers the leading edge science that elucidates the chemical coupling. The chapters exhibit a balance between theory and experiment, gas phase, solid state, and surface dynamics, and geophysical and technical environments.



Readership: Scientists engaged in cross-disciplinary work and chemists studying multidisciplinary problems.

632pp
978-981-02-4177-3
978-981-281-188-2(ebook)

Mar 2001
US\$217
US\$282

£143

Recent Advances in Computational Chemistry - Vol. 1

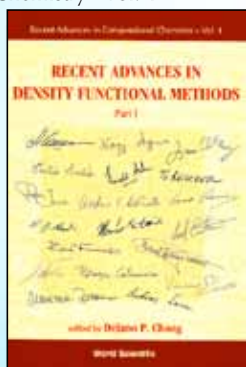
RECENT ADVANCES IN DENSITY FUNCTIONAL METHODS

(Part I)

edited by **Delano P Chong**
(*University of British Columbia, Canada*)

"... very useful when quantum chemists use the density functional method."

Suehiro Iwata
Okazaki National Research Institute, Japan



"Overall, the quality of the chapters is very high ... it will help both beginners and experimentalists (as well as DFT experts) to read the growing DFT literature more easily."

Theoretical Chemistry Accounts

"... this volume will help both beginners and experimentalists to read the growing DFT literature more easily."

Mathematics Abstracts

Readership: Researchers and graduate students in computational chemistry and computational physics.

428pp
978-981-02-2442-4
978-981-283-058-6(ebook)

Nov 1995
US\$122 / £81
US\$159

World Scientific Series in 20th Century Chemistry - Vol. 3

FEMTOCHEMISTRY: ULTRAFAST DYNAMICS OF THE CHEMICAL BOND

(Volumes I & II)

by **Ahmed H Zewail** (*Linus Pauling Professor of Chemical Physics, CALTECH*)

"This two-volume set provides an excellent source of information on the state of the art in femtosecond spectroscopy. It is an invaluable reference for experts in the field as well as those interested in mastering the experimental and theoretical aspects of ultrafast time-resolved spectroscopy."

J Am Chem Soc.

Readership: Chemists, biologists and physicists.

Vol. I
604pp
978-981-02-1736-5
978-981-4287-60-9(ebook)

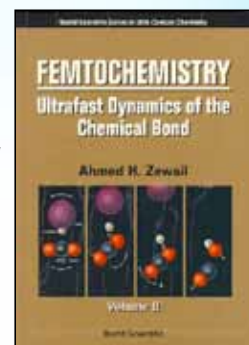
Sep 1994
US\$116
US\$151

£77

Vol. II
372pp
978-981-02-1738-9
978-981-4287-61-6(ebook)

US\$102
US\$133

£67



Advanced Series in Physical Chemistry - Vol. 1

PHYSICAL CHEMISTRY OF SOLIDS

Basic Principles of Symmetry and Stability of Crystalline Solids

by **H F Franzen** (*Iowa State Univ.*)

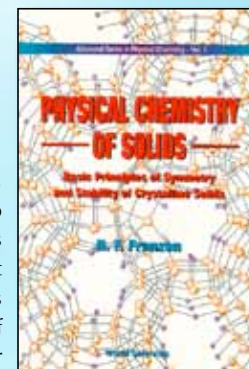
This book is about the underlying principles of symmetry, thermodynamics and electronic structure that pertain to crystalline solids. After years of teaching graduate students in the areas covered, the author has a good idea of what major notions of group theory and thermodynamics are useful to students of solid state chemistry, and of what fundamental concepts are necessary for a clear understanding. Thus the book deals with lattice symmetry, space groups, reciprocal space, Landau theory, X-ray diffraction, heterogeneous equilibria and simple band theory, in a rigorous and thorough treatment.

Readership: Graduate students and solid state chemists.

296pp
978-981-02-1153-0
978-981-02-1154-7(pbk)
978-981-281-483-8(ebook)

Jan 1994
US\$113
US\$61
US\$147

£75
£40



World Scientific Lecture and Course Notes in Chemistry - Vol. 6

DENSITY MATRIX METHOD AND FEMTOSECOND PROCESSES

by **S H Lin** (*Arizona State University, USA*), **R Alden** (*Arizona State University, USA*), **R Islampour** (*Arizona State University, USA*), **H Ma** (*Arizona State University, USA*), & **A A Villaeys** (*Arizona State University, USA*)

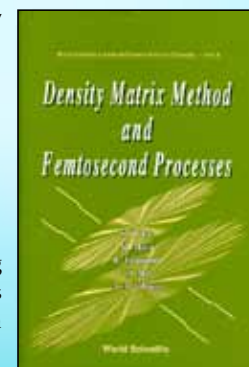
This book originates from lectures given at Shandong University and Nanjing University and the special topics course offered at Arizona State University. It is prepared at a level intended for chemistry and physics graduate students.

Readership: Physics and chemistry graduate students.

228pp
978-981-02-0709-0
978-981-281-208-7(ebook)

Jun 1991
US\$53
US\$69

£35



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Handbook of Porphyrin Science
HANDBOOK OF PORPHYRIN SCIENCE
 (Volumes 16–20)

With Applications to Chemistry, Physics, Materials Science, Engineering, Biology and Medicine

edited by **Karl M Kadish** (*University of Houston, USA*), **Kevin M Smith** (*Louisiana State University, USA*), & **Roger Guilard** (*Université de Bourgogne, France*)

“Vivid testimony to the continuing broad interest and deep impact of the chemistry of these Pigments of Life.”

Jean-Marie Lehn
 Nobel Laureate, Chemistry
 College de France, France

“Everyone interested in the biological and chemical properties of porphyrins and related macrocycles will want to own the Handbook. The editors have done a terrific job in linking together the volumes in this very valuable resource for investigators in the chemical and biological sciences.”

Harry B Gray
 Wolf Laureate, Chemistry
 California Institute of Technology, USA

Porphyrins, phthalocyanines and their numerous analogues and derivatives are materials of tremendous importance in chemistry, materials science, physics, biology and medicine. They are the red color in blood (heme) and the green in leaves (chlorophyll); they are also excellent ligands that can coordinate with almost every metal in the Periodic Table. Grounded in natural systems, porphyrins are incredibly versatile and can be modified in many ways; each new modification yields derivatives, demonstrating new chemistry, physics and biology, with a vast array of medicinal and technical applications.



This Handbook will prove to be a modern authoritative treatise on the subject as it is a collection of up-to-date works by world-renowned experts in the field. Complete with hundreds of figures, tables and structural formulas, and thousands of literature citations, all researchers and graduate students in this field will find the Handbook of Porphyrin Science an essential, major reference source for many years to come.

Readership: Chemists, physicists, material scientists, polymer scientists, spectroscopists, electrochemists, electronics and photonics engineers, biochemists, biophysicists, medicinal chemists and clinicians.

Set (Vol 16–20)

2000pp

978-981-4335-49-2

978-981-4335-50-8(ebook)

Spring 2012

US\$1850 / £1147

US\$2405

US\$1480 / £918

US\$1924

Introductory Offer till July 31, 2012



World Scientific Series on Carbon Nanoscience

HANDBOOK OF CARBON NANO MATERIALS
 (In 2 Volumes)

Volume 1: Synthesis and Supramolecular Systems

Volume 2: Electron Transfer and Applications

edited by **Francis D'Souza** (*University of North Texas, USA*) & **Karl M. Kadish** (*University of Houston, USA*)

A hands on reference guide for scientists working in the fields of chemistry, physics, materials science, polymer science, solid-state physics, devices, nanotechnology or supramolecular science of carbon nanomaterials. In-depth and comprehensive coverage of topics combined with the perspectives for future research by the contributing authors. An invaluable reference source essential for both beginning and advanced researchers in the field.

Readership: Academics, researchers and industry professionals in the fields of fullerenes and all-carbon nanomaterials.

Set

972pp

978-981-4327-81-7

978-981-4327-82-4(ebook)

Jan 2011

US\$380

US\$494

£247

THE ONLY HANDBOOK ON CARBON NANO MATERIALS!

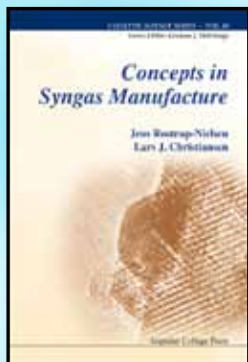
New and Forthcoming titles in Physical Chemistry

Catalytic Science Series - Vol. 10

CONCEPTS IN SYNGAS MANUFACTURE

by **Jens Rostrup-Nielsen** (*Haldor Topsoe A/S, Denmark*) & **Lars J Christiansen** (*Haldor Topsoe A/S, Denmark*)

This book provides a general overview of syngas technologies as well as an in-depth analysis of the steam reforming process. Syngas is an important intermediate in the chemical industry for manufacture of ammonia, methanol and other petrochemicals as well as hydrogen for refineries and fuel cells. *Concepts of Syngas Preparation* aims to provide a comprehensive introduction to this complex field of growing importance and gives a detailed analysis of the catalyst and process problems. This book also serves as an important link between science and industry by illustrating how the basic principles can be applied to solve design issues and operational problems.



Readership: Graduates and postgraduates in the field of catalysis chemistry, as well as researchers and chemical engineers.

392pp	Jul 2011	
978-1-84816-567-0	US\$123	£80
978-1-84816-568-7(ebook)	US\$160	

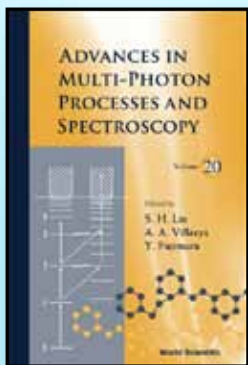
Advances in Multi-Photon Processes and Spectroscopy - Vol. 20

ADVANCES IN MULTI-PHOTON PROCESSES AND SPECTROSCOPY

(Volume 20)

edited by **S H Lin** (*National Chiao-Tung University, Taiwan, Institute of Atomic and Molecular Sciences, Taiwan & Arizona State University, USA*), **A A Villaes** (*Institute de Physique et Chimie des Matériaux de Strasbourg, France*), & **Y Fujimura** (*Tohoku University, Japan*)

This book presents the latest developments and issues in both experimental and theoretical studies of multi-photon processes and the spectroscopy of atoms, molecules and nanomaterials in Physics, Chemistry, Biology and Material Science. It is an important addition to an advanced series that contains review papers suitable for both active researchers in these areas and non-experts who wish to enter the field.



Readership: Chemists, physicists, biologists, material scientists and postgraduates studying the multiphoton processes and multiphoton spectroscopy of atoms, molecules and ions.

260pp	May 2011	
978-981-4343-98-5	US\$109	£71
978-981-4343-99-2(ebook)	US\$142	

:: Textbook

CRYSTAL ENGINEERING

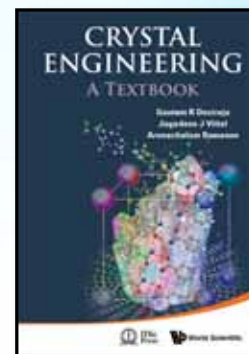
A Textbook

by **Gautam R Desiraju** (*Indian Institute of Science*), **Jagadese J Vittal** (*National University of Singapore*), & **Arunachalam Ramanan** (*Indian Institute of Technology Delhi*)

This book is important because it is the first textbook in an area that has become very popular in recent times. There are around 250 research groups in crystal engineering worldwide today. The subject has been researched for around 40 years but there is still no textbook at the level of senior undergraduates and beginning PhD students. This book is expected to fill this gap.

Readership: Undergraduate and graduate students in crystallography as well as academics and industry players.

232pp	Jun 2011	
978-981-4338-75-2	US\$99	£65
978-981-4366-86-1(pbk)	US\$49	£32



:: Textbook

Catalytic Science Series - Vol. 9

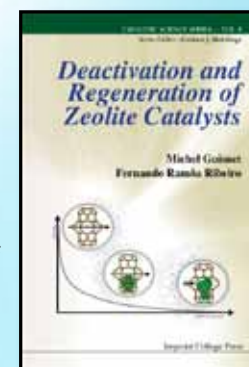
DEACTIVATION AND REGENERATION OF ZEOLITE CATALYSTS

edited by **Michel Guisnet** (*Technical University of Lisbon, Portugal*) & **Fernando Ramôa Ribeiro** (*Technical University of Lisbon, Portugal*)

This book covers the fundamental and applied aspects of solid catalyst deactivation in a comprehensive way and encompasses the state of the art in the field of reactions catalyzed by zeolites. The aim of this book is to be a critical review in the field of zeolite deactivation and regeneration by collecting contributions from experts in the field which describe the factors, explain the techniques to study the causes and suggest methods to prevent (or limit) catalyst deactivation.

Readership: Graduates and postgraduates in chemistry or chemical engineering, researchers and professionals in refining, petrochemical, fine chemicals and pollution abatement.

360pp	Feb 2011	
978-1-84816-637-0	US\$90	£56



NOTES ON STATISTICS AND DATA QUALITY FOR ANALYTICAL CHEMISTS

by **Michael Thompson** (*Birkbeck University of London, UK*) & **Philip J Lowthian** (*Birkbeck University of London, UK*)

This book is intended to help analytical chemists feel comfortable with more commonly used statistical operations and help them make effective use of the results. Emphasis is put upon computer-based methods that are applied in relation to measurement and the quality of the resulting data. The book is intended for analytical chemists working in industry but is also appropriate for students taking first degrees or an MSc in analytical chemistry.

Readership: Analytical chemists working in industry, students taking first degrees or an MSc in analytical chemistry.

260pp	Feb 2011	
978-1-84816-616-5	US\$90	£56
978-1-84816-617-2(pbk)	US\$49	£30
978-1-84816-618-9(ebook)	US\$117	



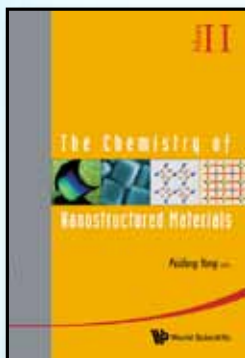
:: Highlight**THE CHEMISTRY OF NANOSTRUCTURED MATERIALS****Volume II**

edited by **Peidong Yang** (*University of California, Berkeley, USA*)

This book is a sequel to the first volume of *The Chemistry of Nanostructured Materials*. It covers the most exciting developments in the nanostructured materials field for the past five to ten years, with a particular focus on their applications in energy conversion and energy storage. Prominent authors of recognized authority in the field contribute their expertise in the review chapters.

Readership: Undergraduate and graduate students in nanochemistry.

336pp	Jan 2011	
978-981-4313-05-6	US\$94	£62
978-981-4313-06-3(pbk)	US\$52	£34
978-981-4313-07-0(ebook)	US\$122	

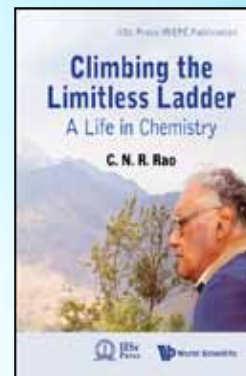
**CLIMBING THE LIMITLESS LADDER****A Life in Chemistry**

by **C N R Rao** (*Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, India & Indian Institute of Science, Bangalore, India*)

This invaluable book is an autobiographical account of doing scientific research in India. It provides an insight to the perseverance of a scientist from a developing country. His relentless pursuit of excellence in chemistry for more than half a century is a remarkable source of inspiration to young scientists facing modern-day challenges.

"A Life in Chemistry is a unique book, the autobiography of a top-class scientist who, quite unusually, is still very active at the age of 76. The book is not only absorbing but also entertaining."

The Telegraph, Calcutta, India

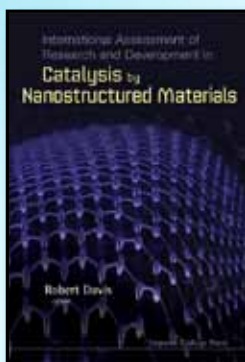
**INTERNATIONAL ASSESSMENT OF RESEARCH AND DEVELOPMENT IN CATALYSIS BY NANOSTRUCTURED MATERIALS**

edited by **Robert Davis** (*University of Virginia, USA*)

In this book, a World Technology Evaluation Center (WTEC) panel of eight experts in the field assesses the current state of research and development in catalysis by nanostructured materials, its sources of funding, and discusses the state of the field with respect to productivity and leadership in various nations around the world.

Readership: Graduates and researchers in chemical engineering, chemistry and economics. Professionals in related industries and governments.

328pp	Jan 2011	
978-1-84816-689-9	US\$99	£61
978-1-84816-690-5(ebook)	US\$129	



"This book presents an interesting personal voyage and seems to have been written, in part, to inspire young people to take up careers in science ... this is an absorbing autobiography of a man who has inspired many young chemists around the world as well as his beloved India."

Chemistry World

Readership: Students and teachers of chemistry, and young scientists.

232pp	Jun 2010	
978-981-4307-85-7	US\$54 / £37	
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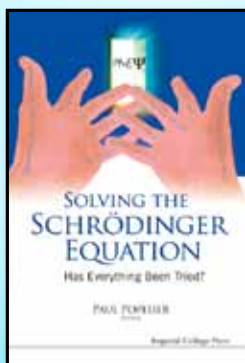
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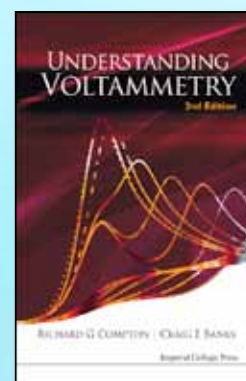
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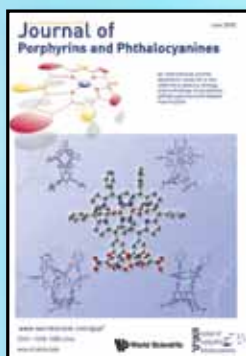
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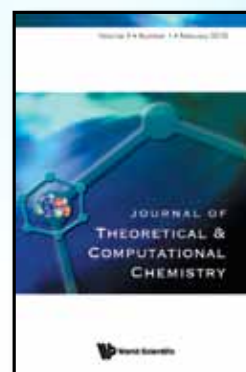
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