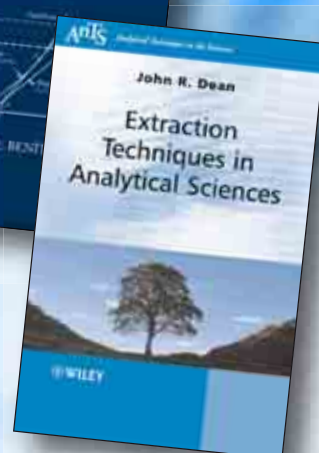
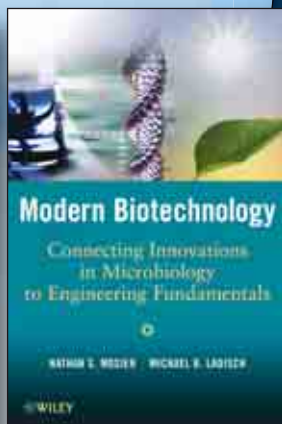
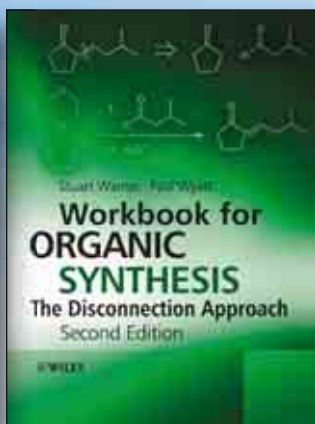
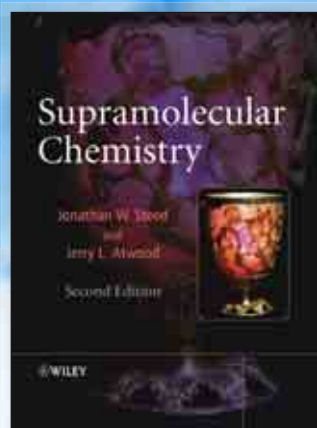


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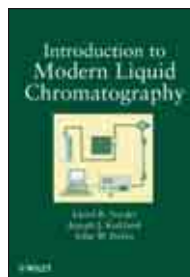
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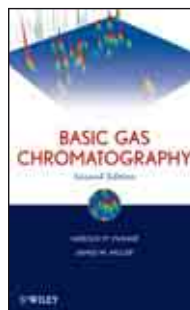
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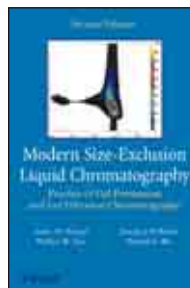
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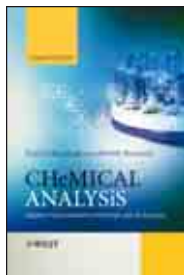
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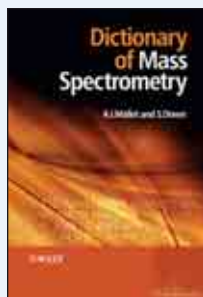
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Annick Rouessac, *L'IUT du Mans, France*

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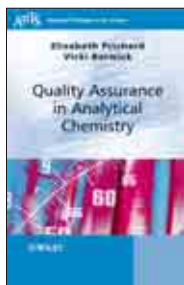
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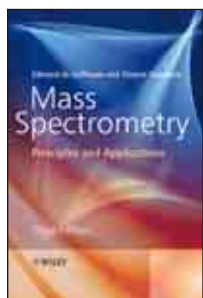
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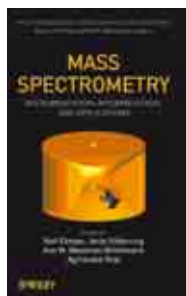
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Dominic M. Desiderio, *Univ. of Tennessee Health Science Center, USA*; Nico M. Nibbering, *Vrije Univ. in Amsterdam, The Netherlands*

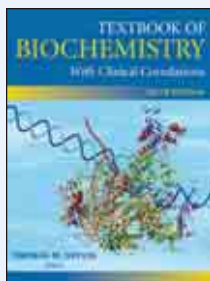
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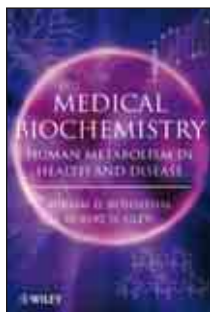
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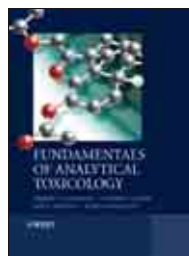
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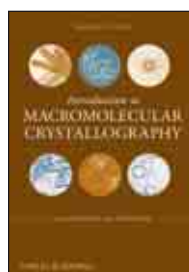
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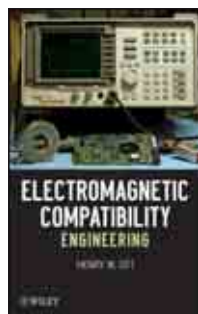
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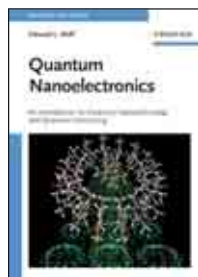
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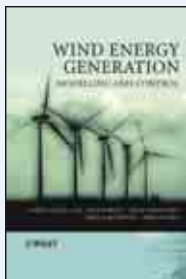
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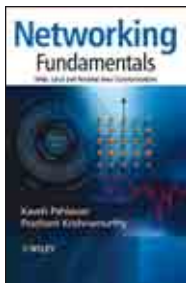
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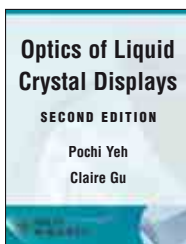
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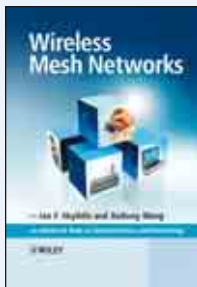
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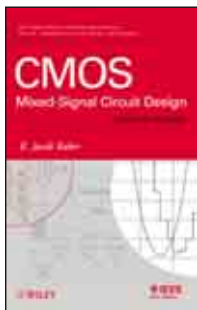
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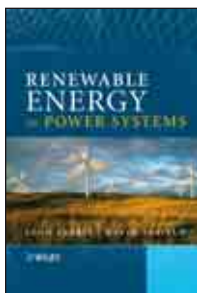
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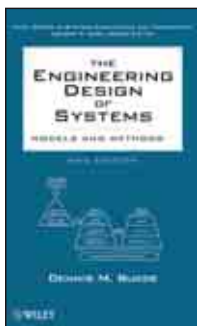


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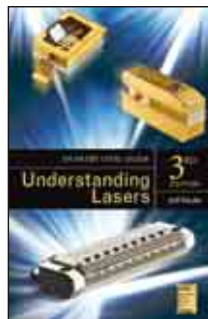
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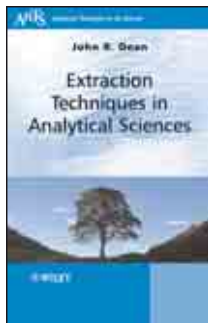
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## Extraction Techniques in Analytical Sciences

new

John R. Dean, *Univ. of Northumbria at Newcastle*

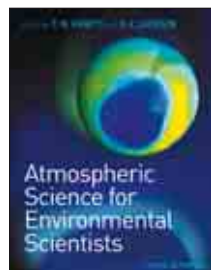
This is an up-to-date look at the latest developments in extraction methodology for environmental analysis, including newer technologies e.g. semi-permeable membranes; downplaying SFE. Case studies are examined to highlight important areas where extraction techniques are used in water, soil and air

analysis. Written in the AnTS style, this is ideal for use as a self-study guide or as the basis of a taught course, and includes a comprehensive bibliography to guide the reader to more specialized texts and sources.

### ANALYTICAL TECHNIQUES IN THE SCIENCES

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## Atmospheric Science for Environmental Scientists

new

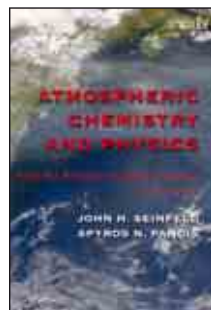
C. Nick Hewitt, *Lancaster Univ., UK*; Andrea V. Jackson, *Univ. of Leeds, UK*

Climate change and air quality are two of the most pressing issues currently facing mankind. Written by an international team of experts, this book affords those working on the science and policies of pollution, climate

change, and air quality a broad, up-to-date account of our knowledge of the processes that occur in the atmosphere, how these are changing as man's relentless use of natural resources continues, and what effects these changes are having on the Earth's climate, and the quality of the air we breathe.

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## Atmospheric Chemistry and Physics

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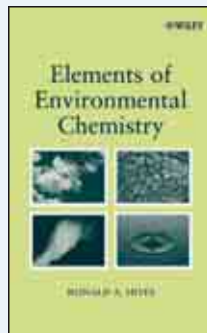
SECOND EDITION

John H. Seinfeld, *California Inst. of Technology, USA*; Spyros N. Pandis, *Carnegie Mellon Univ., USA*

*Atmospheric Chemistry and Physics* takes a rigorous and comprehensive look at the chemistry of the atmosphere—including aerosols and air pollution, their interaction, the effects

of gases and particles, and mathematical chemical/transport models of the atmosphere. Thoroughly updated and revised, this second edition includes all-new chapters on global circulation of the atmosphere, global biogeochemical cycles, and optical properties of aerosols. Like the original edition, this one covers both the fundamentals and more in-depth science elements and includes test problems with solutions, available in a separate manual.

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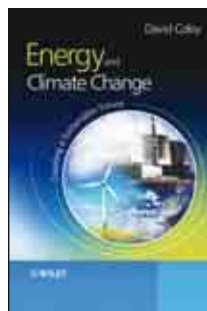
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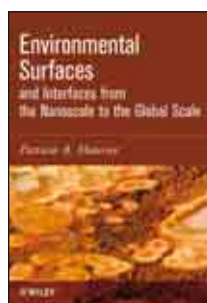
David Coley, *Univ. of Exeter, UK*

*Energy and Climate Change* takes a revealing look at what energy is, why it is important, our current energy systems, more sustainable alternatives, and why energy use is having a detrimental effect on the environment.

Throughout, the reader is encouraged to explore relevant issues through simple numeric problem solving. The text covers climate change, current energy technologies, renewable/alternative technologies, energy economics and the history of energy use. The book also contains numerous exercises and case-studies from around the world.

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## Environmental Surfaces and Interfaces from the Nanoscale to the Global Scale

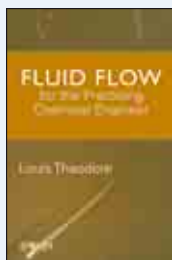
new

Patricia Maurice

Based on the author's 15 years of teaching water-rock interactions, *Environmental Surfaces and Interfaces* covers everything from the theory of charged particle surfaces to how minerals grow and dissolve to new frontiers in W-R interactions, such as nano-

particles, geomicrobiology, and climate change. Numerous case studies help contextualize concepts while chapter-ending problems and thought questions enhance comprehension. The text provides a basic conceptual understanding, along with more complex subject matter, that encourages readers to look beyond the book to ongoing research in the field.

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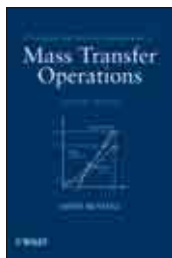
## Fluid Flow for the Practicing Chemical Engineer

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Louis Theodore, *Manhattan College, USA*

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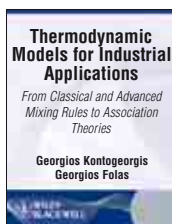
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SECOND EDITION

Jaime Benitez

This second edition is updated to discuss many developing topics in mass transfer operations, including membrane separations, chromatography and other adsorptive processes, electrophoresis, multistage batch distillation, and boundary-layers. This new edition also incorporates mass transfer phenomena in biological systems, making it applicable in biochemical engineering and chemical engineering.

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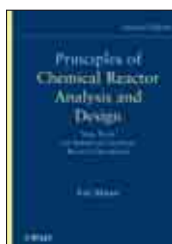
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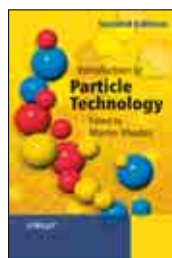
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## Introduction to Particle Technology

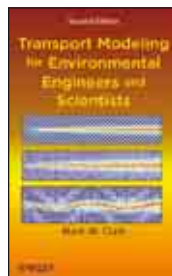
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SECOND EDITION

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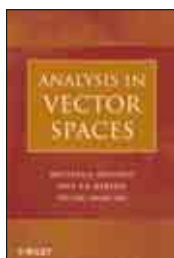
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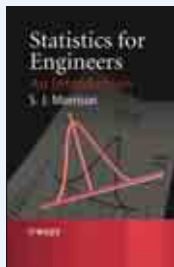
## Analysis in Vector Spaces

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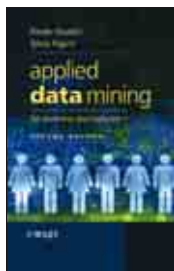
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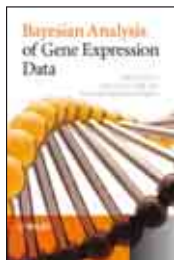
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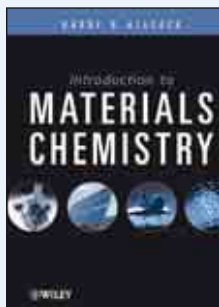
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## Introduction to Materials Chemistry

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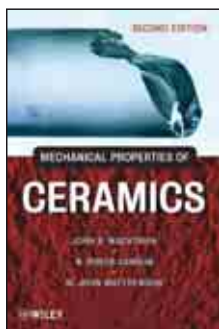
Harry R. Allcock, *The Pennsylvania State Univ., USA*

*"Allcock provides a clear path by first describing basic chemical principles, then distinguishing between the various major materials groups, and finally enriching the student by offering a variety of special examples."*

—Choice

This resource guides you step by step through the fundamentals of chemistry and how they are used to create sophisticated materials and devices that improve modern life. Prepares students for careers in the design and development of materials for uses in the medical, energy, communications, aerospace, and other advanced technology sectors.

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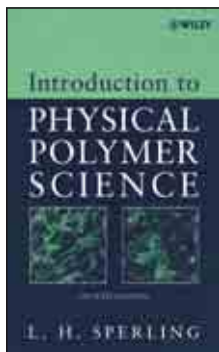
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Gain insight into the causes of mechanical failure of ceramics (including glass) and design for failure avoidance. Experimental facts and theoretical foundations for mechanical behavior are treated. Probabilistic and

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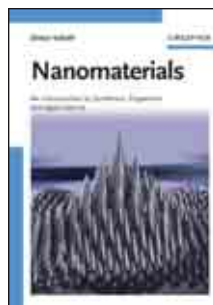
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## Nanomaterials

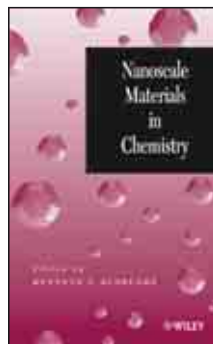
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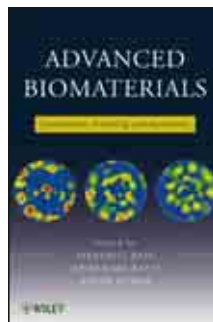
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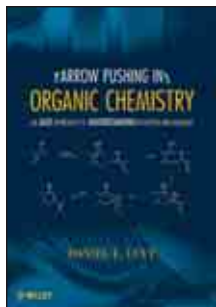
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## Arrow-Pushing in Organic Chemistry

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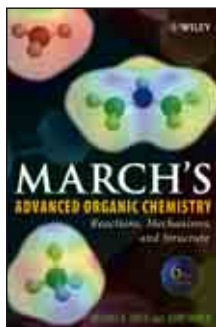
*An Easy Approach to Understanding Reaction Mechanisms*

Daniel E. Levy, *Scios, Inc*

Most organic chemistry books are intimidating by virtue of their size, the encyclopedic presentation of reactions, and the huge amount of material to memorize. Making organic chemistry more approachable,

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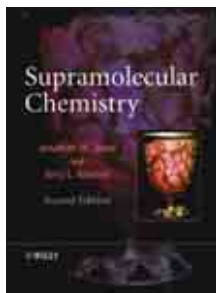
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## Supramolecular Chemistry

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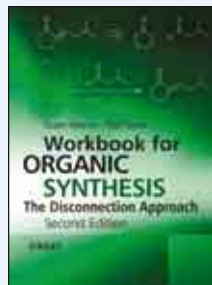
Jonathan W. Steed, *Univ. of Durham, UK*;  
Jerry L. Atwood, *Univ. of Missouri, USA*

*Supramolecular Chemistry* is an up-to-date textbook that tells the newcomers to the field everything they need to know to get started. The book covers the concepts behind the subject, its breadth, applications, and the latest contemporary thinking in the area. It

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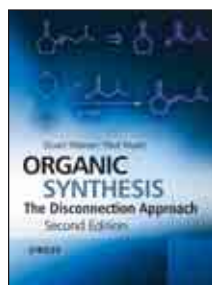
Stuart Warren, *Cambridge Univ., UK*; Paul Wyatt, *School of Chemistry, Univ. of Bristol, UK*

*Workbook for Organic Synthesis*, the companion to the classic reference, helps students design their own organic syntheses. Covering

both synthesis and strategy, the chapters on synthesis detail the synthesis of given types of molecules, alternating with strategy chapters which place the methods just learned in a wider context. By working through this book, students will develop their skills in analyzing synthetic challenges, and build a toolkit of strategies for planning new syntheses.

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## Organic Synthesis

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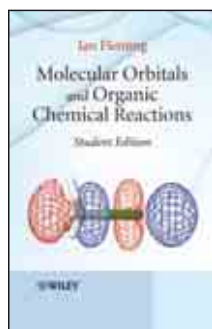
Stuart Warren, *Cambridge Univ., UK*;  
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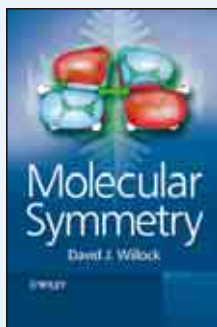
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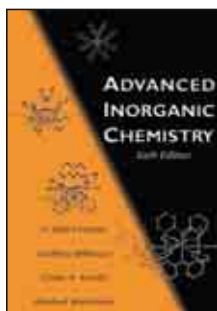
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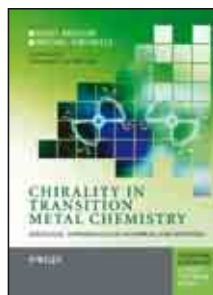
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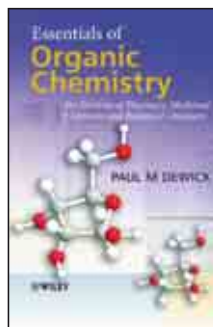
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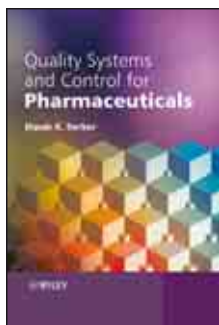
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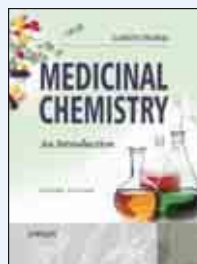
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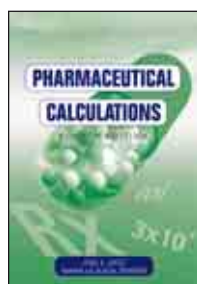
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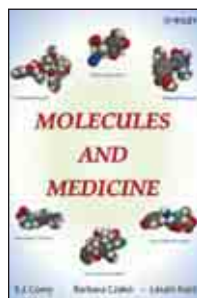
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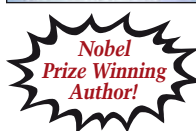
E. J. Corey, Barbara Czako, László Kürti, *all of Harvard Univ., USA*

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## Reactions at Solid Surfaces

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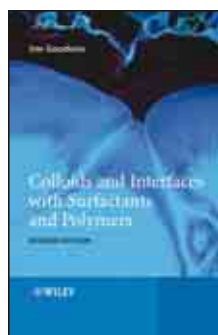
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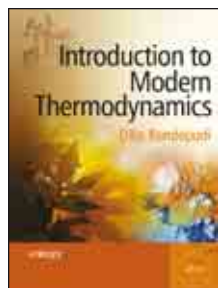
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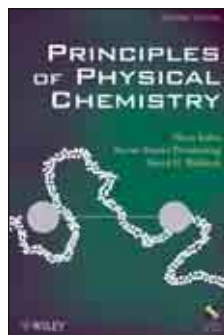
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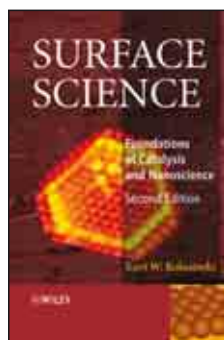
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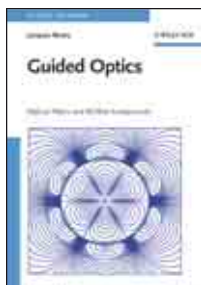
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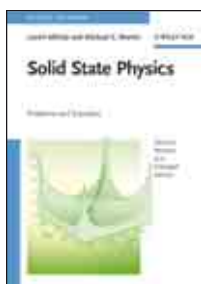
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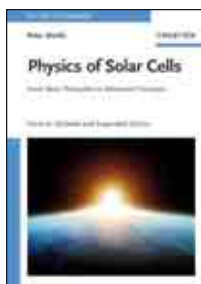
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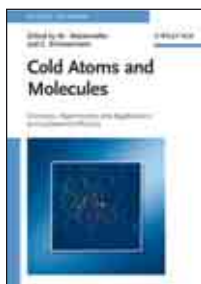
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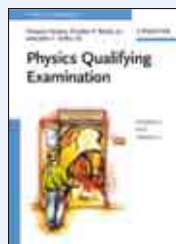
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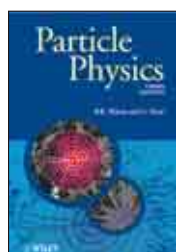
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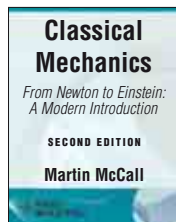
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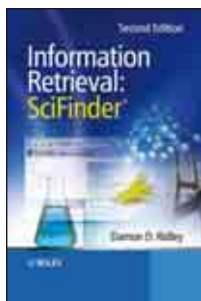
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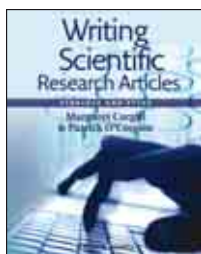
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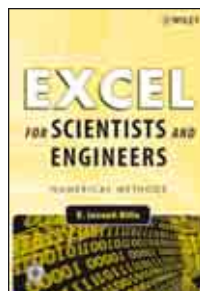
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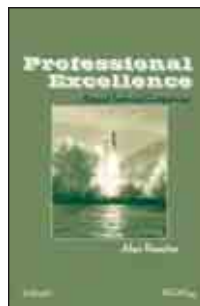
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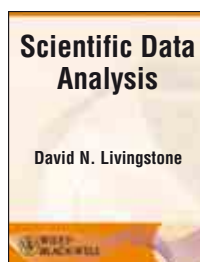
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