



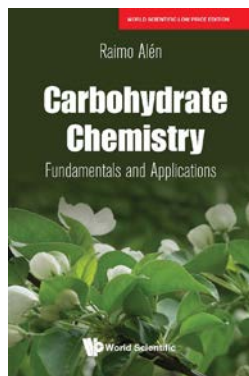
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Carbohydrate Chemistry

Fundamentals and Applications

By Raimo Alén

ISBN 9780000988492, PB, 596pp

Original Price US\$78

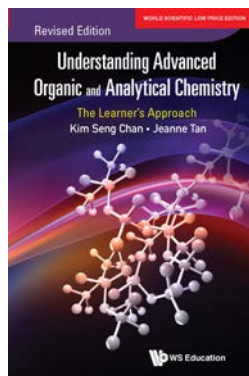
Indian Edition at Rs 1395

This book presents a comprehensive approach to the versatile and fascinating field of carbohydrate chemistry. It covers, besides the colorful historical perspective within the utilization of carbohydrates and their derivatives, all modern aspects on their properties, nomenclature, uses, and natural occurrence as such or as residues in a variety of biologically active molecules. Special emphasis is paid to various conversion techniques for producing value-added chemicals, biofuels, and other products from carbohydrate-rich renewable resources. This book can be primarily used as an advanced textbook for a wide range of readers in many disciplines: not only students and teachers but also everyone who works in the laboratory as a researcher or in production and planning or who generally needs relevant knowledge of carbohydrates.

Contents

Introduction
 Historical Background of Carbohydrate Utilization and Chemistry
 Isomerism
 Representation of Open-chain Chiral Molecules as Planar Formulas
 Configuration
 Cyclic Forms of Monosaccharides
 Naming of Monosaccharides
 Carbohydrate Biosynthesis
 Natural Carbohydrates and Their Derivatives
 Carbohydrate Residues-containing Substance Groups
 Characteristic Reactions of Carbohydrates
 Utilization of Biomass

Readership: Chemists, biochemists, glycobiologists, materials scientists, students in biochemistry and biology.



Understanding Advanced Organic and Analytical Chemistry

The Learner's Approach, Revised Edition

By Kim Seng Chan and Jeanne Tan

ISBN 9780000989123, PB, 568pp

Original Price US\$38

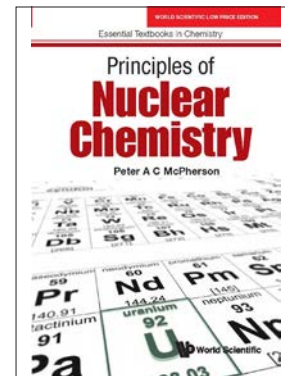
Indian Edition at Rs 1295

This revised edition has been updated. *Understanding Advanced Organic and Analytical Chemistry* is highly relevant to students who are studying chemistry for various examination boards. The authors have also included more Q&A to help students better understand and appreciate the chemical concepts that they are mastering.

Contents

Structure and Bonding
 Isomerism in Organic Compounds
 Organic Reactions and Mechanisms
 Alkanes
 Alkenes
 Arenes
 Halogen Derivatives
 Alcohols and Phenol
 Carbonyl Compounds
 Carboxylic Acids and Their Derivatives
 Amines
 Amino Acids
 Polymers
 Mass Spectrometry
 Ultra-Violet and Visible Spectroscopy
 Infrared Spectroscopy
 Nuclear Magnetic Resonance Spectroscopy
 Chromatography and Electrophoresis

Readership: Junior college students and teachers in chemistry.



Principles of Nuclear Chemistry

By Peter A C McPherson

ISBN 9780000989000, PB, 272pp

Original Price US\$48

Indian Edition at Rs 995

Principles of Nuclear Chemistry is an introductory text in nuclear chemistry and radiochemistry, aimed at undergraduates with little or no knowledge of physics. It covers the key aspects of modern nuclear chemistry and includes worked solutions to end of chapter questions.

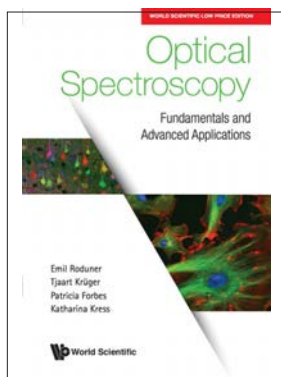
The text begins with basic theories in contemporary physics and uses these to introduce some fundamental mathematical techniques. It relates nuclear phenomena to key divisions of chemistry such as atomic structure, spectroscopy, equilibria and kinetics. It also gives an introduction to f-block chemistry and the nuclear power industry.

This book is essential reading for those taking a first course in nuclear chemistry and is a useful companion to other volumes in physical and analytical chemistry. It will also be of use to those new to working in nuclear chemistry or radiochemistry.

Contents

Concepts in Physics
 The Structure of the Atom
 The Structure of the Nucleus
 Radioactive Decay
 Kinetics of Radioactive Decay
 Nuclear Reactions
 Radioactivity at Work
 The Nucleus, Spectroscopy, and Spectrometry
 Applications of Nuclear Chemistry
 Nuclear Medicine
 Chemistry of the f-Block Elements
 Nuclear Power

Readership: Undergraduates with little or no knowledge of physics, those taking a first course in nuclear chemistry, those new to working in nuclear chemistry or radiochemistry.



Optical Spectroscopy

Fundamentals and Advanced Applications

By Emil Roduner, Tjaart Krüger, Patricia Forbes and Katharina Kress

ISBN 978000988928, PB, 268pp

Original Price US\$98

Indian Edition at Rs 995

Developments in optical spectroscopy have taken new directions in recent decades, with the focus shifting from understanding small gas phase molecules towards applications in materials and biological systems. This is due to significant interest in these topics, which has been facilitated by significant technological developments.

Absorption, luminescence and excited state energy transfer properties have become of crucial importance on a large scale in materials related to light-harvesting in organic and inorganic third generation solar cells, for solar water splitting, and in light emitting diodes, TV screens and many other applications. In addition, Förster resonance energy transfer can be used as a ruler for the characterisation of the structure and dynamics of DNA, proteins and other biomolecules via labelling with fluorescing markers.

This advanced textbook covers a range of these applications as well as the basics of absorption, emission and energy transfer of molecular systems in the condensed phase, in addition to the corresponding behaviour of metal nanoparticles and semiconductor quantum dots. Technical experimental requirements, aspects to avoid interfering perturbations and methods of quantitative data analysis make this book accessible and ideal for students and researchers in physical chemistry, biophysics and nanomaterials.

Contents

Introduction

Fundamentals

Aspects of Experimental Setup and Data Analysis

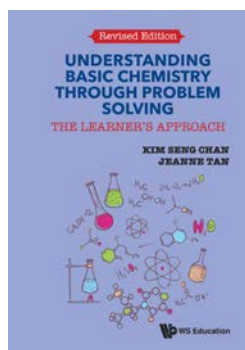
Principles of Optical Spectroscopy Demonstrated for a Set of Rigid Merocyanine Dyes

Absorption and Luminescence of Semiconductor Quantum Dots

Energy Transfer Processes of Excited States Advanced Applications of Optical Spectroscopy

Readership: Students and researchers in chemistry, biology, biophysics, materials science, nanomaterials, analytics, energy conversion and light harvesting subjects.

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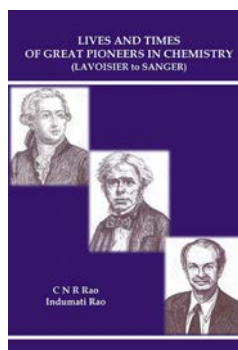
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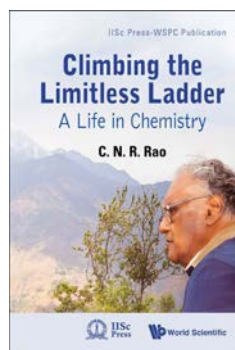
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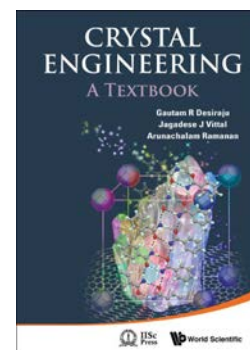
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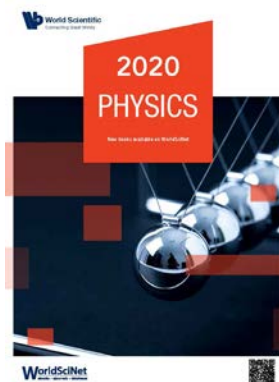
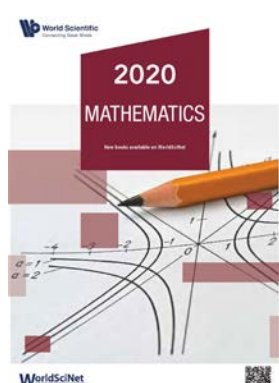
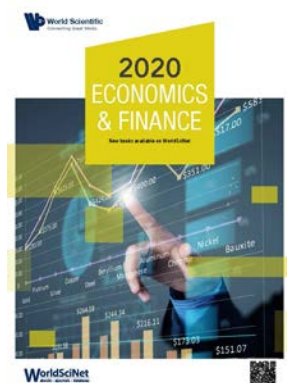
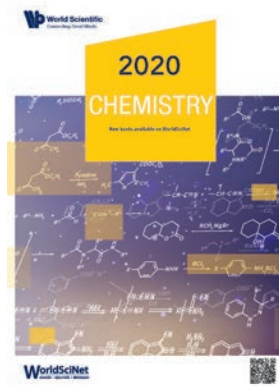
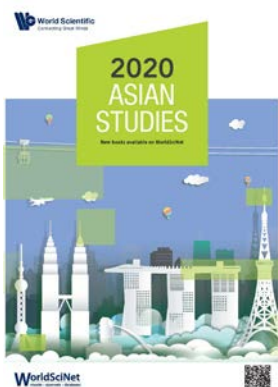
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