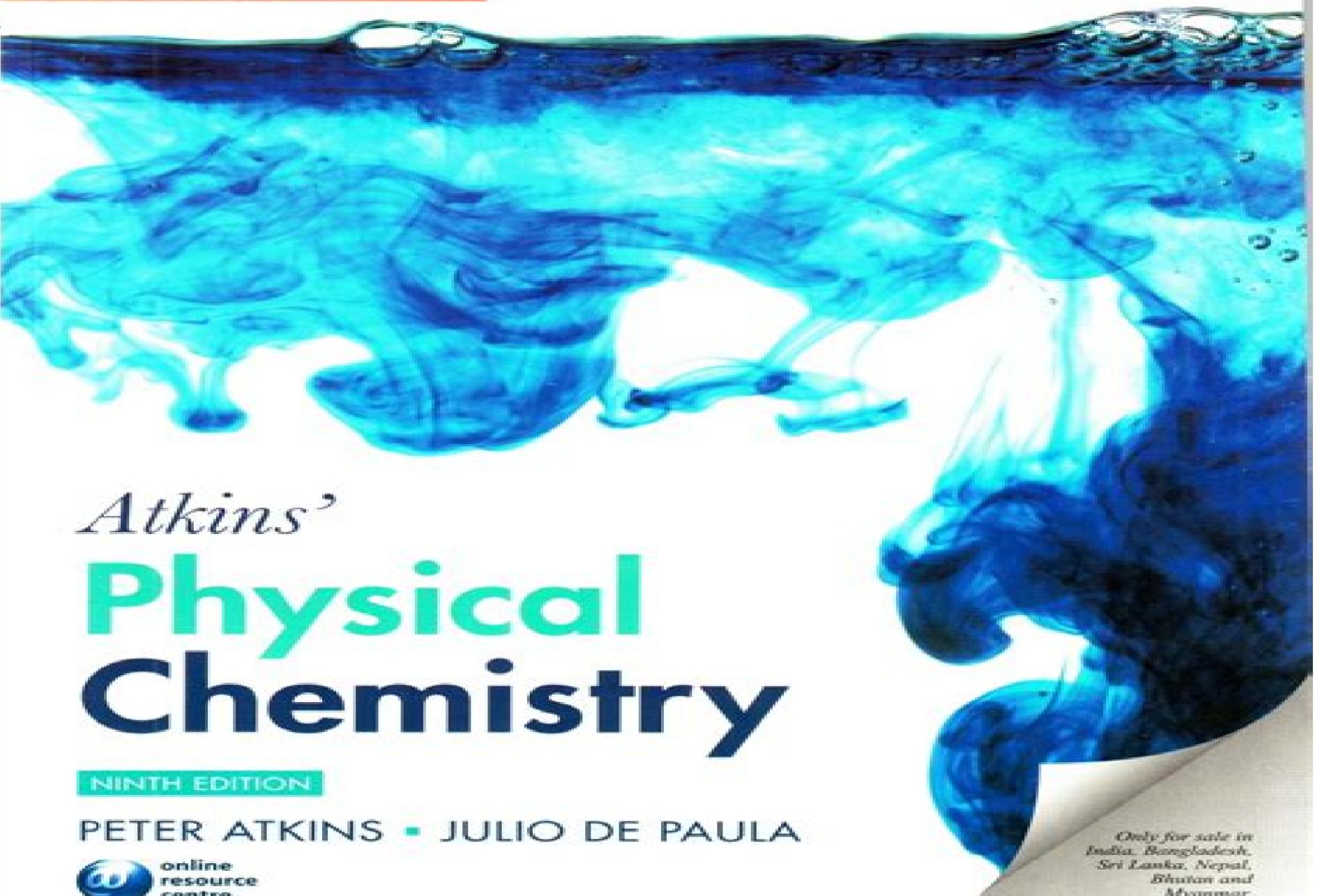


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Handbook of Polyhydroxyalkanoates Martin Koller,2020-10-19 This second volume of the Handbook of Polyhydroxyalkanoates PHA Kinetics Bioengineering and Industrial Aspects focusses on thermodynamic and mathematical considerations of PHA biosynthesis bioengineering aspects regarding bioreactor design and downstream processing for PHA recovery from microbial biomass It covers microbial mixed culture processes and includes a strong industry focused section with chapters on the economics of PHA production industrial scale PHA production from sucrose next generation industrial biotechnology approaches for PHA production based on novel robust production strains and holistic techno economic and sustainability considerations on PHA manufacturing Aimed at professionals and graduate students in Polymer plastic industry wastewater treatment plants food industry biodiesel industry this book Provides an insight into microbial thermodynamics to reveal the central domain governing in PHA formation both aerobically and anaerobically Includes systematic overview of mathematical modelling approaches starting from low structured and formal kinetic models until modern tools like metabolic models cybernetic models and so forth Discusses challenges during scale up of PHA production processes and on development of non

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Adsorption and Diffusion in Nanoporous Materials Rolando M.A. Roque-Malherbe, 2018-02-12 Offering a materials science point of view the author covers the theory and practice of adsorption and diffusion applied to gases in microporous crystalline mesoporous ordered and micro mesoporous amorphous materials Examples used include microporous and mesoporous molecular sieves amorphous silica and alumina and active carbons akaganeites prussian blue analogues metal organic frameworks and covalent organic frameworks The use of single component adsorption diffusion in the characterization of the adsorbent surface pore volume pore size distribution and the study of the parameters characterizing single component transport processes in porous materials are detailed

The Handbook of Polyhydroxyalkanoates, Three Volume Set Martin Koller, 2020-11-05 The Handbook of Polyhydroxyalkanoates PHA focusses on and addresses varying facets of PHA biosynthesis and processing spread across three volumes The first volume discusses feedstock aspects enzymology metabolism and genetic engineering of PHA biosynthesis It addresses better understanding the mechanisms of PHA biosynthesis in scientific terms and profiting from this understanding in order to enhance PHA biosynthesis in bio technological terms and in terms of PHA microstructure It further discusses making PHA competitive for outperforming established petrol based plastics on industrial scale and obstacles for market penetration of PHA This second volume focusses on thermodynamic and mathematical considerations of PHA biosynthesis bioengineering aspects regarding bioreactor design and downstream processing for PHA recovery from microbial biomass It covers microbial mixed culture processes and includes a strong industry focused section with chapters on the economics of PHA production industrial scale PHA production from sucrose next generation industrial biotechnology approaches for PHA production based on novel robust production strains and holistic techno economic and sustainability considerations on PHA manufacturing Third volume is on the production of functionalized PHA bio polyesters the post synthetic modification of PHA processing and additive manufacturing of PHA development and properties of PHA based bio composites and blends the market potential of PHA and follow up materials different bulk and niche applications of PHA and the fate and use of spent PHA items Divided into fourteen chapters it describes functionalized PHA and PHA modification processing and their application including degradation of spent PHA based products and fate of these bio polyesters during compositing and other disposal strategies Aimed at professionals and graduate students in Polymer plastic industry

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compound with respect to detonation causing external stimuli such as heat friction impact shock and electrostatic discharge This book introduces these methods and demonstrates those methods which can be easily applied Astrochemistry and Astrobiology Ian W. M. Smith, Charles S. Cockell, Sydney Leach, 2012-10-28 Astrochemistry and Astrobiology is the debut volume in the new series Physical Chemistry in Action Aimed at both the novice and experienced researcher this volume outlines the physico chemical principles which underpin our attempts to understand astrochemistry and predict astrobiology An introductory chapter includes fundamental aspects of physical chemistry required for understanding the field Eight further chapters address specific topics encompassing basic theory and models up to date research and an outlook on future work The last chapter examines each of the topics again but addressed from a different angle Written and edited by international experts this text is accessible for those entering the field of astrochemistry and astrobiology while it still remains interesting for more experienced researchers **The Physical Chemist's Toolbox** Robert M. Metzger, 2012-04-30 The working tools of the physical sciences expertly organized into one volume Covering the basic concepts and working tools in the physical sciences this reference is a unique indispensable guide for students and researchers in chemistry physics and related disciplines Everyone from novices to experienced researchers can turn to this book to find the essential equations theories and working tools needed to conduct and interpret contemporary research Expertly organized the book Summarizes the core theories common to chemistry and physics Introduces topics and techniques that lay the foundations of instrumentation Discusses basic as well as advanced instrumentation and experimental methods Guides readers from crystals to nanoparticles to single molecules Readers gain access to not only the core concepts of the physical sciences but also the underlying mathematics Among the topics addressed are mechanics special relativity electricity and magnetism quantum chemistry thermodynamics electrochemistry symmetry solid state physics and electronics The book also addresses energy and electrical sources detectors and algorithms Moreover it presents state of the technology instrumentation and techniques needed to conduct successful experiments Each chapter includes problems and exercises ranging from easy to difficult to help readers master core concepts and put them into practice References lead to more specialized texts so that readers can explore individual topics in greater depth The Physical Chemist's Toolbox is recommended not only as a general reference but also as a textbook for two semester graduate courses in physical and analytical chemistry

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