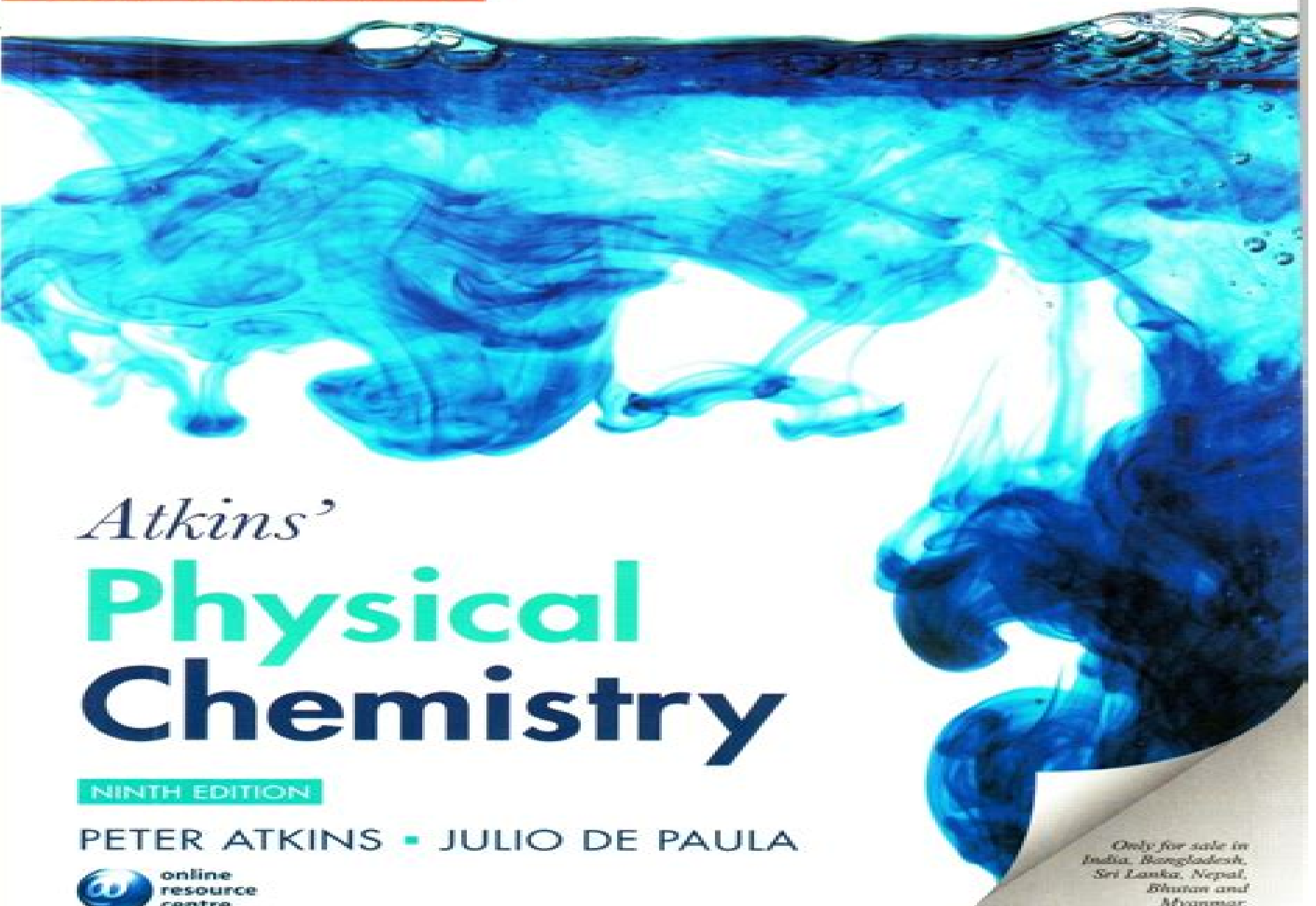


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The Properties of Energetic Materials Mohammad Hossein Keshavarz, Thomas M. Klapötke, 2021-10-25 For a chemist who is concerned with the synthesis of new energetic compounds it is essential to be able to assess physical and thermodynamic properties as well as the sensitivity of possible new energetic compounds before synthesis is attempted Various approaches have been developed to predict important aspects of the physical and thermodynamic properties of energetic materials including but not limited to crystal density heat of formation melting point enthalpy of fusion and enthalpy of sublimation of an organic energetic compound Since an organic energetic material consists of metastable molecules capable of undergoing very rapid and highly exothermic reactions many methods have been developed to estimate the sensitivity of an energetic 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

Introduction to Applied Colloid and Surface Chemistry Georgios M. Kontogeorgis, Soren Kiil, 2016-03-28 Colloid and Surface Chemistry is a subject of immense importance and implications both to our everyday life and numerous industrial sectors ranging from coatings and materials to medicine and biotechnology How do detergents really clean Why can't we just use water Why is milk milky Why do we use eggs so often for making sauces Can we deliver drugs in better and controlled ways Coating industries wish to manufacture

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Crystal Engineering Jeffrey H Williams,2017-09-28 There are more than 20 million chemicals in the literature with new materials being synthesized each week Most of these molecules are stable and the 3 dimensional arrangement of the atoms in the molecules in the various solids may be determined by routine x ray crystallography When this is done it is found that this vast range of molecules with varying sizes and shapes can be accommodated by only a handful of solid structures This limited number of architectures for the packing of molecules of all shapes and sizes to maximize attractive intermolecular forces and minimizing repulsive intermolecular forces allows us to

develop simple models of what holds the molecules together in the solid In this volume we look at the origin of the molecular architecture of crystals a topic that is becoming increasingly important and is often termed crystal engineering Such studies are a means of predicting crystal structures and of designing crystals with particular properties by manipulating the structure and interaction of large molecules That is creating new crystal architectures with desired physical characteristics in which the molecules pack together in particular architectures a subject of particular interest to the pharmaceutical industry

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 wastewater treatment plants food industry biodiesel industry this set Presents comprehensive and holistic consideration of these microbial bioplastics in the volumes Enables reader to learn about microbiological enzymatic genetic synthetic biology and metabolic aspects of PHA biosynthesis based on the latest scientific discoveries Discusses design and operate a PHA production plant Strong focus on post synthetic modification preparation of functional PHA and follow up products and PHA processing Covers all related engineering considerations

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