

Nanoporous Materials

Science and Engineering

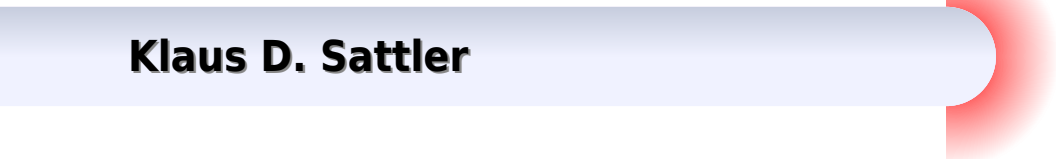
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Nanoporous Materials Science Engineering 2004

Klaus D. Sattler



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Handbook of Nanophysics Klaus D. Sattler, 2010-09-17 Providing the framework for breakthroughs in nanotechnology this landmark publication is the first comprehensive reference to cover both fundamental and applied physics at the nanoscale After discussing the theoretical principles and measurements of nanoscale systems the organization of the set follows the historical development of nanoscience Each peer reviewed chapter presents a didactic treatment of the physics underlying the nanoscale materials applications and detailed experimental results State of the art scientific content is enriched with fundamental equations and illustrations many in color Nanosensors Vinod Kumar Khanna, 2021-02-25 Nanosensors are innovative devices that exploit the unique properties exhibited by matter at the nanoscale A growing and exciting field nanosensors have recently spurred considerable research endeavors across the globe driving a need for the development of new device concepts and engineering nanostructured materials with controlled properties Nanosensors Physical Chemical and Biological Second Edition offers a panoramic view of the field and related nanotechnologies with extraordinary clarity and depth Presenting an interdisciplinary approach blending physics chemistry and biology this new edition is broad in scope and organised into six parts beginning with the fundamentals before moving onto nanomaterials and nanofabrication technologies in the second part The third and fourth parts provide a critical appraisal of physical nanosensors and explore the chemical and biological categories of nanosensors The fifth part sheds light on the emerging applications of nanosensors in the sectors of society industry and defense and details the cutting edge applications of state of the art nanosensors in environmental science food technology medical diagnostics and biotechnology The final part addresses self powering and networking issues of nanosensors and provides glimpses of future trends This is an ideal reference for researchers and industry professionals engaged in the frontier areas of material science and semiconductor fabrication as well as graduate students in physics and engineering pursuing electrical engineering and electronics courses with a focus on nanoscience and nanotechnology Key features Provides an updated all encompassing exploration of contemporary nanosensors and highlights the exclusive nanoscale properties on which nanosensors are designed Presents an accessible approach with a question and answer format to allow an easy grasp of the intricacies involved in the complex working mechanisms of devices Contains clear illustrative diagrams enabling the visualization of nanosensor operations along with worked examples end of chapter questions and exhaustive up to date bibliographies appended to each chapter

Advanced Material Engineering - Proceedings Of The 2015 International Conference Yongchang Liu, Yingquan Peng, 2015-09-08 This book represents a collection of papers presented at the 2015 International Conference on Advanced Material Engineering AME 2015 held in Guangzhou China With the rapid development of industry and information technology researchers across all fields began to discuss new ideas related to materials science and manufacturing technology This proceedings provide a valuable insight from researchers and scientists who exchanged their ideas in the

conference **Advances in Bioceramics and Biocomposites II, Volume 27, Issue 6** Mineo Mizuno, 2009-09-29 The use of ceramics in biological environments and biomedical applications is of increasing importance as is the understanding of how biology works with minerals to develop strong materials These proceedings contain papers that discuss the interface between biology and materials presented at the Proceedings of the 30th International Conference on Advanced Ceramics and Composites January 22-27 2006 Cocoa Beach Florida Organized and sponsored by The American Ceramic Society and The American Ceramic Society's Engineering Ceramics Division in conjunction with the Nuclear and Environmental Technology Division **Encyclopedia of Renewable and Sustainable Materials**, 2020-01-09 Encyclopedia of Renewable and Sustainable Materials Five Volume Set provides a comprehensive overview covering research and development on all aspects of renewable recyclable and sustainable materials The use of renewable and sustainable materials in building construction the automotive sector energy textiles and others can create markets for agricultural products and additional revenue streams for farmers as well as significantly reduce carbon dioxide CO₂ emissions manufacturing energy requirements manufacturing costs and waste This book provides researchers students and professionals in materials science and engineering with tactics and information as they face increasingly complex challenges around the development selection and use of construction and manufacturing materials Covers a broad range of topics not available elsewhere in one resource Arranged thematically for ease of navigation Discusses key features on processing use application and the environmental benefits of renewable and sustainable materials Contains a special focus on sustainability that will lead to the reduction of carbon emissions and enhance protection of the natural environment with regard to sustainable materials **Engineering Textiles** Alexandr A. Berlin, Roman Joswik, Vatin Nikolai Ivanovich, 2015-09-03 This volume provides the textile science community with a forum for critical authoritative evaluations of advances in the discipline of textile engineering Reporting on recent advances with significant applications in textile engineering the chapters are written by internationally recognized researchers This book covers a multitude of important concepts and advances in the field including Applications of nonwovens in textile engineering Textile waste treatment for use in emulsion rubbers Parameters of polyhydroxybutyrate nanofibers Preparation of amines for use in textile engineering Progress in photovoltaic textile New applications in nanoengineering materials in the textile industry *Nuclear Magnetic Resonance* G A Webb, 2007-10-31 As a spectroscopic method Nuclear Magnetic Resonance NMR has seen spectacular growth over the past two decades both as a technique and in its applications Today the applications of NMR span a wide range of scientific disciplines from physics to biology to medicine Each volume of Nuclear Magnetic Resonance comprises a combination of annual and biennial reports which together provide comprehensive coverage of the literature on this topic For those wanting to become rapidly acquainted with specific areas of NMR this title provides unrivalled scope of coverage Seasoned practitioners of NMR will find this an invaluable source of current methods and applications Each volume of Nuclear Magnetic Resonance comprises a combination of annual and biennial reports which

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Mechanical Reliability of Nanoporous Zeolite Materials Mark Chapman Johnson, 2006

Adsorption by Carbons Eduardo J. Bottani, Juan M.D. Tascón, 2011-10-10 Adsorption by Carbons covers the most significant aspects of adsorption by carbons attempting to fill the existing gap between the fields of adsorption and carbonaceous materials Both basic and applied aspects are presented The first section of the book introduces physical adsorption and carbonaceous materials and is followed by a section concerning the fundamentals of adsorption by carbons This leads to development of a series of theoretical concepts that serve as an introduction to the following section in which adsorption is mainly envisaged as a tool to characterize the porous texture and surface chemistry of carbons Particular attention is paid to some novel nanocarbons and the electrochemistry of adsorption by carbons is also addressed Finally several important technological applications of gas and liquid adsorption by carbons in areas such as environmental protection and energy storage constitute the last section of the book The first book to address the interplay between carbonaceous materials and adsorption Includes important environmental applications such as the removal of volatile organic compounds from polluted atmospheres Covers both gas solid and liquid solid adsorption

Chromatographic Processes Roger-Marc Nicoud, 2015-04-20 Addressing all aspects of the design modeling and simulation of chromatographic processes this result oriented primer provides a practical guide to all the necessary approaches methodologies and tools Beginning with key definitions and concepts it builds up from the most simple to the most complex situations including multicomponent systems non uniform velocity profiles bed instability particle size distributions and the influence of complex environments on chromatographic process design In addition to covering classical approaches it introduces efficient tools for investigating chromatographic processes such as the Russian Lego approach for linear systems phenomenological models and specific shortcuts for deriving the key properties of industrial processes With an emphasis on real world problems and applications step by step modeling design guidelines and detailed exercises for self assessment this is a must have guide for practitioners and researchers working in chemical biochemical food and pharmaceutical engineering

Materials for High-Temperature Fuel Cells San Ping Jiang, Yushan Yan, 2013-04-11 The world's ever growing demand for power has created an urgent need

for new efficient and sustainable sources of energy and electricity Today's consumers of portable electronics also demand devices that not only deliver more power but are also environmentally friendly Fuel cells are an important alternative energy source with promise in military commercial and industrial applications for example power vehicles and portable devices A fuel cell is an electrochemical device that directly converts the chemical energy of a fuel into electrical energy Fuel cells represent the most efficient energy conversion technologies to date and are an integral part in the new and renewable energy chain e.g. solar wind and hydropower Fuel cells can be classified as either high temperature or low temperature depending on their operating temperature and have different materials requirements This book is dedicated to the study of high temperature fuel cells In high temperature fuel cells the electrolyte materials are ceramic or molten carbonate while the electrode materials are ceramic or metal but not precious metal High operation temperature fuel cells allow internal reforming promote rapid kinetics with non precious materials and offer high flexibilities in fuel choice and are potential and viable candidate to moderate the fast increase in power requirements and to minimize the impact of the increased power consumption on the environment Materials for High Temperature Fuel Cells is part of the series on Materials for Sustainable Energy and Development edited by Prof Max Q Lu The series covers advances in materials science and innovation for renewable energy clean use of fossil energy and greenhouse gas mitigation and associated environmental technologies

Functional Nanostructured Materials and Membranes for Water Treatment Mikel Duke, Dongyuan Zhao, Rafael Semiat, 2013-03-14 Membranes have emerged over the last 30 years as a viable water treatment technology Earth's population is growing and the need for alternative ways to generate potable water is rising The recent advent of nanotechnology opens the door to improving processes in membrane technology which is a promising step on the way to solving the earth's potable water problem Current performance is enhanced and new concepts are possible by engineering on the nanoscale This book presents key areas of nanotechnology such as fouling tolerant and robust membranes enhanced destruction of pollutants and faster monitoring of water quality Functional Nanostructured Materials and Membranes for Water Treatment is part of the series on Materials for Sustainable Energy and Development edited by Prof G Q Max Lu The series covers advances in materials science and innovation for renewable energy clean use of fossil energy and greenhouse gas mitigation and associated environmental technologies

Physical Chemistry Research for Engineering and Applied Sciences, Volume One Eli M. Pearce, Bob A. Howell, Richard A. Pethrick, Gennady E. Zaikov, 2015-02-25 The aim of this book is to provide both a rigorous view and a more practical understandable view of industrial chemistry and biochemical physics This book is geared toward readers with both direct and lateral interest in the discipline This volume is structured into different parts devoted to industrial chemistry and biochemical physics and thei

21st Century Nanoscience - A Handbook Klaus D. Sattler, 2020-04-08 This 21st Century Nanoscience Handbook will be the most comprehensive up to date large reference work for the field of nanoscience Handbook of Nanophysics by the same editor

published in the fall of 2010 and was embraced as the first comprehensive reference to consider both fundamental and applied aspects of nanophysics This follow up project has been conceived as a necessary expansion and full update that considers the significant advances made in the field since 2010 It goes well beyond the physics as warranted by recent developments in the field This seventh volume in a ten volume set covers bioinspired systems and methods Key Features Provides the most comprehensive up to date large reference work for the field Chapters written by international experts in the field Emphasises presentation and real results and applications This handbook distinguishes itself from other works by its breadth of coverage readability and timely topics The intended readership is very broad from students and instructors to engineers physicists chemists biologists biomedical researchers industry professionals governmental scientists and others whose work is impacted by nanotechnology It will be an indispensable resource in academic government and industry libraries worldwide The fields impacted by nanophysics extend from materials science and engineering to biotechnology biomedical engineering medicine electrical engineering pharmaceutical science computer technology aerospace engineering mechanical engineering food science and beyond

Physical Chemistry Research for Engineering and Applied Sciences - Three Volume Set Eli M. Pearce, Bob A. Howell, Richard A. Pethrick, Gennady E. Zaikov, 2015-06-24 This 3 volume set covers new research and applications on physical chemical for engineering and applied sciences Volume 1 discusses the principles and technological implications of industrial chemistry and biochemical physics Volume 2 presents some fascinating phenomena associated with the remarkable features of high performance polymers and also *Porous Polymers* Michael S. Silverstein, Neil R. Cameron, Marc A. Hillmyer, 2011-02-14 This book gathers the various aspects of the porous polymer field into one volume It not only presents a fundamental description of the field but also describes the state of the art for such materials and provides a glimpse into the future Emphasizing a different aspect of the ongoing research and development in porous polymers the book is divided into three sections Synthesis Characterization and Applications The first part of each chapter presents the basic scientific and engineering principles underlying the topic while the second part presents the state of the art results based on those principles In this fashion the book connects and integrates topics from seemingly disparate fields each of which embodies different aspects inherent in the diverse field of porous polymeric materials

Geomechanical and Petrophysical Properties of Mudrocks E.H. Rutter, J. Mecklenburgh, K.G. Taylor, 2017-10-09 A surge of interest in the geomechanical and petrophysical properties of mudrocks shales has taken place in recent years following the development of a shale gas industry in the United States and elsewhere and with the prospect of similar developments in the UK Also these rocks are of particular importance in excavation and construction geotechnics and other rock engineering applications such as underground natural gas storage carbon dioxide disposal and radioactive waste storage They may greatly influence the stability of natural and engineered slopes Mudrocks which make up almost three quarters of all the sedimentary rocks on Earth therefore impact on many areas of applied geoscience This volume focuses on

the mechanical behaviour and various physical properties of mudrocks The 15 chapters are grouped into three themes i physical properties such as porosity permeability fluid flow through cracks strength and geotechnical behaviour ii mineralogy and microstructure which control geomechanical behaviour and iii fracture both in laboratory studies and in the field

Nanostructured Multifunctional Materials Esteban A. Franceschini, 2021-06-04 The development of nanomaterials plays a fundamental role in current and future technology applications particularly nanomaterials that have multiple functionalities This book provides a broad overview of the effect of nanostructuring in the multifunctionality of different widely studied nanomaterials This book is divided into four sections constituting a road map that groups materials sharing certain types of nanostructuring including nanoporous nanoparticled 2D laminar nanomaterials and computational methods for characterizations of nanostructures This structured approach in nanomaterials research will serve as a valuable reference material for chemists bio engineers physicists nanotechnologists undergraduates and professors *Physical Chemistry for the Chemical and Biochemical Sciences* Jose Luis Lopez-Bonilla, Marat Ibragimovich Abdullin, Gennady E. Zaikov, 2016-03-30 By providing an applied and modern approach this volume will help readers understand the value and relevance of studying case studies and reviews on chemical and biochemical sciences Presenting a wide ranging view of current developments in applied methodologies in chemical and biochemical physics research the papers in this collection all writ **Handbook Of Porphyrin Science: With Applications To Chemistry, Physics, Materials Science, Engineering, Biology And Medicine (Volumes 26-30)** Gloria C Ferreira, 2013-08-26 This is the sixth set of Handbook of Porphyrin Science This 5 volume set provides a comprehensive review of the most up to date research on porphyrin heme and chlorophyll biochemistry as well as applications to biomedicine and bio inspired energy In depth coverage of topics along with perspectives on outstanding questions and future research directions by the authors make these volumes an essential resource for both beginning and advanced investigators in the field It is also suitable for non experts in porphyrin who wish to have an overview of the fundamental discoveries and breakthroughs in the porphyrin arena related to medicine and bio inspired energy Bringing together the biochemistry of porphyrin binding proteins and their clinical relevance and applications to medicine and renewable energy this set provides readers with an integrated coverage of porphyrin biochemistry At the same time it challenges readers with new questions and perspectives of research regarding the role of porphyrin biochemistry in the future of medicine and renewable energy

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