

I. Thorn
C.O. Au (Eds.)

Applications of Wet-End Paper Chemistry

2nd Edition



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Chemistry of Modern Papermaking Cornel Hagiopol, James W. Johnston, 2011-09-08 Chemistry of Modern Papermaking presents a chemist's perspective on the papermaking process. With roughly 3% of the mass of a paper product invested in water-soluble chemicals, paper makers can adjust the speed and efficiency of the process, minimize and reuse surplus materials, and differentiate a paper product as required by specific customers. **Applications of Wet-End Paper Chemistry** Ian Thorn, Che On Au, 2009-07-24 Applications of Wet-End Paper Chemistry bridges the gap between the theory and practice of wet-end paper chemistry by explaining how particular chemicals are chosen and put to use in real situations. A number of international experts in the field present recent contributions on the optimum use of chemicals in papermaking. Major inroads have taken place since the first edition of this title was published in 1995. This new edition of Applications of Wet-End Paper Chemistry will reflect the changing type and use of chemicals used in papermaking in the 21st century. Chemists and chemical engineers across the paper and pulp-making industry as well as in research and academic institutes will find this book of enormous practical value. **Polymer Adhesion, Friction, and Lubrication** Hongbo Zeng, 2013-04-01 Specifically dedicated to polymer and biopolymer systems, Polymer Adhesion, Friction, and Lubrication guides readers to the scratch, wear, and lubrication properties of polymers and the engineering applications from biomedical research to automotive engineering. Author Hongbo Zeng details different experimental and theoretical methods used to probe static and dynamic properties of polymer materials and biomacromolecular systems. Topics include the use of atomic force microscopy (AFM) to analyze nanotribology, polymer thin films and brushes, nanoparticles, rubber and tire technology, synovial joint lubrication, adhesion in paper products, bioMEMS, and electrorheological fluids. **Materials for Chemical Sensing** Thiago Regis Longo, Cesar Paixão, Subrayal Medapati Reddy, 2016-11-23 This book covers new materials used as analytical devices for increasing the interactions between the development of new analytical devices and materials science. The authors describe how different types of materials, such as polymers, self-assembled layers, phthalocyanines, and nanomaterials, can further enhance sensitivity and promote selectivity between analytes for different applications. They explain how continuing research and discussion into materials science for chemical sensing is stimulating the search for different strategies and technologies that extract information for these chemical sensors in order to obtain a chemical fingerprint of samples. **Handbook of Sustainable Polymers** Vijay Kumar Thakur, Manju Kumari Thakur, 2016-04-27 Sustainable polymers play an indispensable role in the emergence of green materials, and the 21st century is an era of sustainable polymeric materials. Sustainable polymer-based materials have attracted considerable interest because of the energy crisis and ecological concerns, as well as the potential to substitute certain petroleum-derived materials. **Handbook of Nanomaterials for Industrial Applications** Chaudhery Mustansar Hussain, 2018-07-19 Handbook of Nanomaterials for Industrial Applications explores the use of novel nanomaterials in the industrial arena. The book covers nanomaterials and the

techniques that can play vital roles in many industrial procedures such as increasing sensitivity magnifying precision and improving production limits In addition the book stresses that these approaches tend to provide green sustainable solutions for industrial developments Finally the legal economical and toxicity aspects of nanomaterials are covered in detail making this is a comprehensive important resource for anyone wanting to learn more about how nanomaterials are changing the way we create products in modern industry Demonstrates how cutting edge developments in nanomaterials translate into real world innovations in a range of industry sectors Explores how using nanomaterials can help engineers to create innovative consumer products Discusses the legal economical and toxicity issues arising from the industrial applications of nanomaterials

The British National Bibliography Arthur James Wells,2009 **Handbook of Industrial Chemistry and Biotechnology** James A. Kent,Tilak V. Bommaraju,Scott D. Barnicki,2017-08-01 This widely respected and frequently consulted reference work provides a wealth of information and guidance on industrial chemistry and biotechnology Industries covered span the spectrum from salt and soda ash to advanced dyes chemistry the nuclear industry the rapidly evolving biotechnology industry and most recently electrochemical energy storage devices and fuel cell science and technology Other topics of surpassing interest to the world at large are covered in chapters on fertilizers and food production pesticide manufacture and use and the principles of sustainable chemical practice referred to as green chemistry Finally considerable space and attention in the Handbook are devoted to the subjects of safety and emergency preparedness It is worth noting that virtually all of the chapters are written by individuals who are embedded in the industries whereof they write so knowledgeably **Building with Paper** Ulrich Knaack,Rebecca Bach,Samuel Schabel,2022-12-19 Paper and cardboard as sustainable building materials are currently the subject of research and testing They can be produced inexpensively are made from renewable raw materials and are completely recyclable The focus of their application is on temporary uses such as for transitional schools emergency shelters or microhomes Properly protected from moisture and fire the material proves to be durable Design and aesthetic qualities are by no means neglected as case studies by Pritzker Prize winner Shigeru Ban demonstrate the Chengdu Elementary School the Paper Concert Hall in Aquila or the Cardboard Cathedral in Christchurch all provided a sign of hope after devastating earthquakes This introduction explains the technology of building with cardboard and paper and shows a wide range of examples **Industrial Biorefineries and White**

Biotechnology Ashok Pandey,Rainer Höfer,Mohammad Taherzadeh,Madhavan Nampoothiri,Christian Larroche,2015-05-08 Industrial Biorefineries and White Biotechnology provides a comprehensive look at the increasing focus on developing the processes and technologies needed for the conversion of biomass to liquid and gaseous fuels and chemicals in particular the development of low cost technologies During the last 3 4 years there have been scientific and technological developments in the area this book represents the most updated information and technological perspective on the topic Provides information on the most advanced and innovative pretreatment processes and technologies for biomass Covers information on

lignocellulosic and algal biomass to work on the principles of biorefinery Provides information on integration of processes for the pretreatment of biomass Designed as a textbook for both graduate students and researchers

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