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Applications of Wet-End Paper Chemistry

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Applications Of Wet End Paper Chemistry

Rachel Sandford



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Applications of Wet-End Paper Chemistry Che On Au, I. Thorn, 2013-06-29 Commercial demands and increasing global competition have led to enormous mechanical evolution over recent years Twin wires wide nip presses steam boxes and speed sizers have all played a part in improving both the productivity and quality of paper and board products With the emphasis on mechanical and electrical engineering and the ever increasing pressures of quality measurement and control little time has been available within a technical department for much reflection on the chemistry of the process Thus there is a growing trend for the management of the wet end to be delegated to the chemical supplier The advances in scale of paper manufacture environmental sensitivity and higher quality of end product requirements have all had an impact on the chemistry of the wet end The increased production means for example that down time is more of an anathema now when capacity is critical Similarly with the greater rigours of quality management anything which causes

breaks or holes must be eradicated Environmental pressures too are growing on the papermaking process Even if consideration is restricted to only the closure of the white water circuit it alone throws down a challenge to the potency of biocides retention aids and other chemicals These chemicals are detriment ally affected by an increasing concentration of water soluble pulp extractives and surfactants adhesives and polysaccharides from broke and recycled paper *Advances in Papermaking Wet End Chemistry Application Technologies* Martin A. Hubbe, Scott Rosencrance, 2018-01-20

Aminofunctional Starch Derivatives: Synthesis, Analysis, and Application Antje Gonera, 2004 **Paper Chemistry** J.C. Roberts, 2012-12-06 Although the title of this book is Paper Chemistry it should be considered as a text about the chemistry of the formation of paper from aqueous suspensions of fibre and other additives rather than as a book about the chemistry of the raw material itself It is the subject of what papermakers call wet end chemistry There are many other excellent texts on the chemistry of cellulose and apart from one chapter on the accessibility of cellulose the subject is not addressed here Neither does the book deal with the chemistry of pulp preparation from wood from other plant sources or from recycled fibres for there are also many excellent texts on this subject The first edition of this book was a great success and soon became established as one of the Bibles of the industry Its achievement then was to collect the considerable advances in understanding which had been made in the chemistry of papermaking in previous years and provide for the first time a sound physico chemical basis of the subject This new edition has been thoroughly updated with much new material added The formation of paper is a continuous filtration process in which cellulosic fibres are formed into a network which is then pressed and dried The important chemistry involved in this process is firstly the retention of col loidal material during filtration and secondly the modification of fibre and sheet properties so as to widen the scope for the use of paper and board products Surface Application of Paper Chemicals J. Brander, I. Thorn, 2012-12-06 With the exception of a slight hiccup during the height of the recent environmental movement during the early 1990s when for a year or two consumers were prepared to pay a price premium for lower quality recycled paper than for the virgin product the inexorable improvement in the quality demanded of paper products continues This demand for quality covers not only the aesthetics of the product but also its performance Moreover it is becoming increasingly the case that papers designed for a particular use must as it were incidentally also perform well in alternative applications An example is that of office and printing papers which are expected to perform as well in copier machines as in all the various forms of impact and non impact printers But even greater demands are made in other product areas where board designed for dry foods can also be expected to protect moist and fatty materials and be made of 100% recycled fibre The need to isolate foodstuffs from some of the contaminants that can affect recycled board is a serious challenge Thus papermakers are constantly striving to meet a broadening spectrum of demands on their products often while accepting declining quality of raw materials The product design philosophy that has arisen in response to this is increasingly to isolate the bulk of a paper from its uses to engineer the needed performance

characteristics into the paper surfaces while more or less ignoring what happens inside Iodine Chemistry and Applications Tatsuo Kaiho, 2014-11-24 This book comprehensively covers iodine its chemistry and its role in functional materials reagents and compounds Provides an up to date detailed overview of iodine chemistry with discussion on elemental aspects characteristics properties iodides and halogen bonding Acts as a useful guide for readers to learn how to synthesize complex compounds using iodine reagents or intermediates Describes traditional and modern processing techniques such as starch copper blowing out and ion exchange resin methods Includes seven detailed sections devoted to the applications of iodine Characteristics Production Synthesis Biological Applications Industrial Applications Bioorganic Chemistry and Environmental Chemistry and Radioisotopes Features hot topics in the field such as hypervalent iodine mediated cross coupling reactions agrochemicals dye sensitized solar cells and therapeutic agents **Polymer Adhesion, Friction, and Lubrication** Hongbo Zeng, 2013-02-07 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 The Handbook of Paper-Based Sensors and Devices Ghenadii Korotcenkov, 2025-07-25 This collection on materials and technologies is the first of a three volume handbook on all aspects of paper based devices from synthesis of nanocellulose and paper fabrication to discussion of features of fabrication of various flexible sensors and electronic devices on paper substrates Subsequent volumes address sensors and bio and environment engineering electronics and energy technologies The books also present a comprehensive and detailed analysis of all aspects of applications of these sensors and devices in environment monitoring biomedicine healthcare agriculture the food industry energy electronics optoelectronics and other domains Paper based bioengineering and environment engineering are also discussed in detail in these books The books enable the reader to understand the present status of paper based sensors and devices and the role of paper in the development of new generation of sensors and electronic devices for various purposes with enhanced efficiency World renowned experts with extensive expertise in the development of nanocellulose based technology and paper based sensors and electronic devices comprise the contributors to this collection The Handbook of Paper Based Sensors and Devices is an authoritative reference for materials scientists biologists physicians and biochemical engineers as well as for chemical biomedical environmental electronics agriculture engineers and the food biotechnologists working in R Considers in detail the synthesis modification of nanocellulose intended for use in various fields Analyzes the specifics of manufacturing paper based flexible and wearable sensors and systems for various applications 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. **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. **Highlights in Colloid Science** Dimo

Platikanov, Dotchi Exerowa, 2009-03-12 This beautiful compilation of invited review articles authored by well-known scientists covers the latest developments and achievements in colloid and interface science and is dedicated to Professor Tharwat Tadros, an outstanding scientist in the field. Due to the fact that colloid science involves a great number of disciplines, the papers discuss such hot topics as emulsions, nanoparticles, surfactants, microemulsions, and self-assembly. **Chemical Thermodynamics for Industry** Trevor M Letcher, 2007-10-31 *Chemical Thermodynamics for Industry* presents the latest developments in applied thermodynamics and highlights the role of thermodynamics in the chemical industry. Written by leading experts in the field, *Chemical Thermodynamics for Industry* covers the latest developments in traditional areas such as calorimetry, microcalorimetry, transport properties, crystallization, adsorption, electrolyte systems, and transport fuels. It highlights newly established areas such as multiphase modeling, reactive distillation, non-equilibrium thermodynamics, and spectro-calorimetry. It also explores new ways of treating old technologies as well as new and potentially important areas such as ionic liquids, new materials, ab initio quantum chemistry, nanoparticles, polymer recycling, clathrates, and the economic value of applied thermodynamics. This book is aimed not only at those working in a specific area of chemical thermodynamics but also at the general chemist, the prospective researcher, and those involved in funding chemical research.

Polysaccharides in Medicinal Applications Severian Dumitriu, 2017-10-19 Integrates the latest advances in polysaccharide chemistry and structure analysis with the practical applications of polysaccharides in medicine and pharmacy, highlighting the role of glycoconjugates in basic biological processes and immunology. It also presents recent developments in glycobiology and glycopathology. The work covers bacterial, fungal, and cell wall polysaccharides, microbial and bacterial exopolysaccharides, industrial gums, the biosynthesis of bacterial polysaccharides, and the production of microbial polysaccharides. **Process Control, Electrical & Information Conference**, 1998 **Advances in Chitin/Chitosan Characterization and Applications** Marguerite Rinaudo, Francisco M. Goycoolea, 2019-04-23 Functional advanced

biopolymers have received far less attention than renewable biomass cellulose rubber etc used for energy production Among the most advanced biopolymers known is chitosan The term chitosan refers to a family of polysaccharides obtained by partial de N acetylation from chitin one of the most abundant renewable resources in the biosphere Chitosan has been firmly established as having unique material properties as well as biological activities Either in its native form or as a chemical derivative chitosan is amenable to being processed typically under mild conditions into soft materials such as hydrogels colloidal nanoparticles or nanofibers Given its multiple biological properties including biodegradability antimicrobial effects gene transfectability and metal adsorption to name but a few chitosan is regarded as a widely versatile building block in various sectors e g agriculture food cosmetics pharmacy and for various applications medical devices metal adsorption catalysis etc This Special Issue presents an updated account addressing some of the major applications including also chemical and enzymatic modifications of oligos and polymers A better understanding of the properties that underpin the use of chitin and chitosan in different fields is key for boosting their more extensive industrial utilization as well as to aid regulatory agencies in establishing specifications guidelines and standards for the different types of products and applications

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view regarding large scale manufacturing and their applications from the perspective of their medical uses in printed electronics and in adhesives The third volume deals with the ability of bionanomaterials to self assemble in either liquids or forming organized solid materials The chemistry of cellulose nanomaterials and chemical modifications as well as different assembling techniques and used characterization methods and the most important properties which can be achieved by self assembly are described The chapters for example discuss subjects such as ultra light biobased aerogels based on cellulose and chitin thin films suitable as barrier layers self sensing nanomaterials and membranes for water purification The fourth volume reviews green composite materials including green raw materials such as biobased carbon fibers regenerated cellulose fibers and thermoplastic and thermoset polymers e g PLA bio based polyolefines polysaccharide polymers natural rubber bio based polyurethane lignin polymer and furfurylalcohol The most important composite processing technologies are described including prepregs of green composites compounding liquid composite molding foaming and compression molding Industrial applications especially for green transportation and the electronics industry are also described This four volume set is a must have for anyone keen to acquire knowledge on novel bionanomaterials including structure property correlations isolation and purification processes of nanofibers and nanocrystals their important characteristics processing technologies industrial up scaling and suitable industry applications The handbook is a useful reference not only for teaching activities but also for researchers who are working in this field

Handbook of Pulping and Papermaking Christopher J. Biermann, 1996-08-01 In its Second Edition Handbook of Pulping and Papermaking is a comprehensive reference for industry and academia The book offers a concise yet thorough introduction to the process of papermaking from the production of wood chips to the final testing and use of the paper product The author has updated the extensive bibliography providing the reader with easy access to the pulp and paper literature The book emphasizes principles and concepts behind papermaking detailing both the physical and chemical processes A comprehensive introduction to the physical and chemical processes in pulping and papermaking Contains an extensive annotated bibliography Includes 12 pages of color plates

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