

I. Thorn
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Applications of Wet-End Paper Chemistry

2nd Edition



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Applications Of Wet End Paper Chemistry

Antje Gonera



Applications Of Wet End Paper Chemistry:

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 *Applications of Wet-End Paper Chemistry* Ian Thorn, Che On Au, 2009-08-14 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 **Applications of Wet-End Paper Chemistry** Ian Thorn, Che On Au, 2009-08-29 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

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 sizars 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 *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 colloidal 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

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. W. Aminofunctional Starch Derivatives: Synthesis, Analysis, and Application Antje Gönner, 2004 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.

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