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C.O. Au (Eds.)

Applications of Wet-End Paper Chemistry

2nd Edition



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Advances in Papermaking Wet End Chemistry Application Technologies Martin A. Hubbe,Scott Rosencrance,2018-01-20

Surface Application of Paper Chemicals J. Brander,I. Thorn,1997-09-30 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

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Pulp and Paper Industry Pratima Bajpai,2015-04-09 Pulp and Paper Industry Microbiological Issues in Papermaking features in depth and thorough coverage of microbiological issues in papermaking and their consequences and the current state of the different alternatives for prevention treatment and control of biofilm slime considering the impact of the actual technological changes in papermaking on the control programmes The microbial issues in paper mill systems chemistry of deposits on paper machines the strategies for deposit control and methods used for the analysis of biofouling are all dealt in this book along with various growth prevention methods The traditional use of biocides is discussed taken into account the new environmental regulations regarding their use Finally discusses the trends regarding the future of the microbiological control in papermaking systems In depth coverage of microbiological issues in papermaking and their consequences Discusses eco efficient processes green processes for biofilm slime control Offers a thorough review of the current literature with links to the primary literature Comprehensive indexing Author is an authority in the pulp and paper

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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
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