

# Retention of Fines and Fillers During Papermaking

Jerome M. Gess  
Editor

# Retention Of Fines And Fillers During Papermaking

**J Spring**



## **Retention Of Fines And Fillers During Papermaking:**

**Retention of Fines and Fillers During Papermaking** Jerome M. Gess,1998 **Encyclopedia of Surface and Colloid Science** P. Somasundaran,2006 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 **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 **TAPPI Pulping Conference, 1999 Proceedings** ,1999 *The local distribution of fillers in the z-direction of paper* Christian Rompf,2014-04-11 Inhaltsangabe Introduction It is important to determine the distribution fillers in thickness direction of paper However the techniques that are available are limited in precision and accuracy This thesis describes a new method for the determination of fillers in the z direction of paper The method is based on a splitting technique that offers a good reproducibility and provides good layer uniformity The new method is used to estimate the effects of different factors of influences affecting the fillers distribution During sheet forming a large amount of water is removed This dewatering process creates an irregular distribution of fillers across the thickness of the paper Therefore the description of the distribution of fillers in the thickness direction is critical to optimize paper properties The techniques currently available for this kind of characterization have limitations in terms of repeatability resolution or precision Another limitation to currently available techniques is the lack of a good sampling area Considering the large effect of fillers on many paper properties the ability to measure and thus control the filler distribution in the z direction helps to control sheet structure reduce two sidedness and improve paper properties such as internal bond Inhaltsverzeichnis Table of Contents Acknowledgements2 Abstract3 Index of contents4 1 Introduction6 1 1Paper structure7 1 1 1Three dimensional network8 1 1 2Formation11 1 2Fillers12 1 2 1Effects of filler loading on the properties of paper12 1 2 2The main fillers 14 1 3Retention and dewatering16 1 3 1First pass retention and true retention17 1 3 2Agglomeration and flocculation20 1 3 3Retention fundamentals 23 1 3 4Filler distribution24 1 4Measuring filler content and distribution25 2 Materials and methods28 2 1 1Measuring filler distribution28 2 1 2The procedure of splitting33 2 1 3Acquisition of the images35 3 Results and Discussion37 3 1Settings of the scanner38 3 2Different backgrounds40 3 3Repeatability of the

method42 3 4Influence of the position of filler addition43 3 5SC Paper with 42 8 % GCC53 3 6TMP Paper 20% GCC57 3 7Fine paper with 20 % and 30 % of GCC63 3 8Different positions of adding GCC73 4 Summary83 5 Sources84 6 List of Figures86 Textprobe Text Sample Chapter 1 3 4 Filler distribution The distribution of filler material in the paper depends on the forming process Fillers can be entrapped mechanically into the web *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 *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 **Tappi Journal** ,2001-06 *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

*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

*Biermann's Handbook of Pulp and Paper* Pratima Bajpai, 2018-05-17 Biermann s Handbook of Pulp and Paper Paper and Board Making Third Edition provides a thorough introduction to paper and board making providing paper technologists recent information The book emphasizes principles and concepts behind papermaking detailing both the physical and chemical processes It has been updated revised and extended Several new chapters have been added Papermaking chemistry has found an adequate scope covering this important area by basics and practical application Scientific and technical advances in refining including the latest developments have been presented The process of stock preparation describes the unit processes An exhaustive overview of Chemical additives in Pulp and Paper Industry is included Paper and pulp processing and additive chemicals are an integral part of the total papermaking process from pulp slurry through sheet formation to effluent disposal Water circuits with loop designs and circuit closure are presented The chapter on paper and board manufacture covers the different

sections in the paper machine and also fabrics rolls and roll covers and describes the different types of machines producing the various paper and board grades Coating is dealt with in a separate chapter covering color formulation and preparation and also coating application Paper finishing gives an insight into what happens at roll slitting and handling The chapter on environmental impact includes waste water treatment and handling air emissions utilization and solid residue generation and mitigation The major paper and board grades and their properties are described Biotechnological methods for paper processing are also presented This handbook is essential reading for Applied Chemists Foresters Chemical Engineers Wood Scientists and Pulp and Paper technologist Engineers and anyone else interested or involved in the pulp and paper industry Provides comprehensive coverage on all aspects of papermaking Covers the latest science and technology in papermaking Includes traditional and biotechnological methods a unique feature of this book Presents the environmental impact of papermaking industries Sets itself apart as a valuable reference that every pulp and papermaker engineer chemist will find extremely useful

**Paper Chemistry and Technology** Monica Ek, Göran Gellerstedt, Gunnar Henriksson, 2009-12-15 This four volume set covers the entire spectrum of pulp and paper chemistry and technology from starting material to processes and products including market demands This work is essential for all students of wood science and a useful reference for those working in the pulp and paper industry or on the chemistry of renewable resources Volume 3 provides an overview of paper production and the ways in which the chemistry of starting materials and processes influence its quality and properties The work treats fundamental properties of the fibre wall and the consolidation of fibres during pressing and drying surface chemistry of fibres and their influence on the interaction between fibres paper and other materials mechanisms behind the adsorption of polyelectrolytes to fibres and fillers acid and alkaline sizing of paper basic fluid mechanical behavior of fibre suspensions web forming web pressing and web drying in a modern paper machine calendering and coating of paper

*Journal of Pulp and Paper Science*, 2007 Chemistry of Polysaccharides Gennady Zaikov, 2005-04-18 This monograph summarizes scientific achievements in the field of polysaccharide chemistry performed in the last decade For the first time the particular features of polysaccharide structure physical chemical properties and biochemical transformations in their interrelations are considered as well as the questions of polysaccharide modification along the whole hierarchical chain including starch mono di oligo and polysaccharides chitin chitozan and cellulose Polysaccharide interactions with diverse solvents and low molecular macrocyclic and high molecular substances in solutions are scrutinized Several aspects of mechanical chemical modification of polysaccharides in solid state and in gel are observed Modern concepts of enzyme degradation of polysaccharides and technologies of natural polymers processing are analyzed The book is intended for wide range of readers students post graduates engineers and scientists engaged in polymer chemistry organic and physical chemistry Official Gazette of the United States Patent Office United States. Patent Office, 1969 *Handbook of Paper*

*and Board* Herbert Holik, 2013-03-25 Papermaking is a fascinating art and technology The second edition of this successful 2

volume handbook provides a comprehensive view on the technical economic ecologic and social background of paper and board It has been updated revised and largely extended in depth and width including the further use of paper and board in converting and printing A wide knowledge basis is a prerequisite in evaluating and optimizing the whole process chain to ensure efficient paper and board production The same is true in their application and end use The book covers a wide range of topics Raw materials required for paper and board manufacturing such as fibers chemical additives and fillers Processes and machinery applied to prepare the stock and to produce the various paper and board grades including automation and trouble shooting Paper converting and printing processes book preservation The different paper and board grades as well as testing and analysing fiber suspensions paper and board products and converted or printed matters Environmental and energy factors as well as safety aspects The handbook will provide professionals in the field e g papermakers as well as converters and printers laymen students politicians and other interested people with the most up to date and comprehensive information on the state of the art techniques and aspects involved in paper making converting and printing

**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 nano particles surfactants micro emulsions and self assembly

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

*Small Particles Technology* Jan-Erik Otterstedt, Dale A. Brandreth, 2013-03-09 It is difficult to imagine modern technology without small particles 1 1000 nm in size because virtually every industry depends in some way on the use of such materials Catalysts printing inks paper dyes and pigments many medicinal products adsorbents

thickening agents some adhesives clays and hundreds of other diverse products are based on or involve small particles in a very fundamental way In some cases finely divided materials occur naturally or are merely a convenient form for using a material In most cases small particles play a special role in technology because in effect they constitute a different state of matter because of the basic fact that the surface of a material is different from the interior by virtue of the unsaturated bonding interactions of the outermost layers of atoms at the surface of a solid Whereas in a macroscale particle these differences are often insignificant as the surface area per unit mass becomes larger by a factor of as much as 10 physical and chemical effects such as adsorption become so pronounced as to make the finely divided form of the bulk material into essentially a different material usually one that has no macroscale counterpart



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