## **Pulp And Paper Chemistry And Chemical Technology Volume 1**

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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

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 calandering and coating of paper

volume 2 of the handbook of colorant chemistry focuses on paints painting and drawing systems used by the painter and craftsman it describes in detail structure of oil watercolor acrylic and ceramic paints inks toners and other drawing systems from presenting molecular compositions of common paints and inks to a historical look at color chemistry the author offers an in depth look at the world of color the complementary volume 1 dyes and pigments fundamentals isbn 978 3 11 077699 7 focuses on paints painting and drawing systems used by the painter and craftsman the book is supplemented by a comprehensive bibliography with references to standard works monographs and original papers the reader is provided with a unique overview of the fi eld of color chemistry

providing an overview of the making of paper from a chemical perspective this book is an informative and entertaining overview for students and general readers

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