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The Chemistry of Paper 1996 for what is thought of as an essentially mechanical process paper manufacture involves a large amount of chemistry the chemistry of paper provides an overview of the process of making paper from a chemical perspective it deals with both the chemistry of paper as a material and the chemistry of its production setting out the main principles involved at every stage of the process early chapters provide a chemical definition of paper in the light of the many uses to which it is put subsequent chapters deal with the chemical processes involved in the production of paper the delignification of the wood fibres performed at elevated temperature and pressure the bleaching of the cellulose rich pulp using environmentally friendly systems the formation of the pulp into sheets of fibres strengthened by extensive inter fibre hydrogen bonding and finally the coating of the sheets in a manner appropriate to their end use chemistry is involved at every stage of the process including carbohydrate chemistry the chemistry of inorganic pigments and organic resins colloid and surface chemistry as well as elements of environmental and analytical chemistry the chemistry of paper provides an informative and entertaining overview of the chemical principles involved it will be especially suitable for students and others who require an introduction to the chemistry of paper manufacture

Pulp and Paper Chemistry and Technology 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 1920 cellulose electrokinetics retention aids additives sizing whitening agents fillers measurement and control

Chemistry of Pulp and Paper Making 1991-06 excerpt from the chemistry of paper making together with the principles of general chemistry a handbook for the student if rags are boiled for some hours with acid glucose is formed rosin is heated with soda and a size which is different from either is prepared iron rusts in the air or burns in the forge or dissolves in acid and the products would never be confounded with the metal these are chemical changes the identity of the materials involved in them has been lost and new and different substances have appeared the changes have affected the ultimate constitution of the substances and they are no longer what they were it is with such changes that the science of chemistry has to deal about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks.com this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our

edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

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Pulp and Paper 2015-12-05 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

The Chemistry of Paper-Making, Together with the Principles of General Chemistry; A Handbook for the Student and Manufacturer 2012-09-18 the production of forestry products is based on a complex chain of knowledge in which the biological material wood with all its natural variability is

converted into a variety of fiber based products each one with its detailed and specific quality requirements 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 supported by a grant from the Ljungberg foundation the editors at the royal institute of technology stockholm sweden coordinated over 30 authors from university and industry to create this comprehensive overview 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 publisher s description

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the ecosystem and the presence of synthetic ligands or abnormal levels of natural ligands in the environment the compendium is suitable for analytical and organic chemists chemical engineers environmentalists and students of biochemistry

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