

The Textile Fibers Their Physical Microscopical And Chemical Properties

covers asbestos wool minor hair fibers silk vegetable fibers cotton cellulose minor seed hairs artificial silks linen jute ramie hemp minor vegetable fibers and paper fibers analysis testing fabrics

excerpt from the d104ile fibers their physical microscopical and chemical properties since the last edition of this volume of ten years ago there has been so much new matter appearing in the field of textile fibers that the author has been under the necessity of entirely rewriting and rearranging the book in the present edition therefore the reader will find that a great deal of new matter has been introduced and the general plan of the book has been readjusted to meet the demands of a logical development of the subject the field of textile chemistry and the processing of textile fibers has taken on new proportions during the past ten years to mention only one branch of the subject the artificial silk industry for example has expanded until at the present time more artificial silk is made than is obtained as a natural product from the silkworm the use of merceri sed cotton has become an established factor in the cotton industry and has become stabilised into a standard process the world war caused much research into the possibilities of utilising other fibers than those normally

employed and we find a great variety of experimenting such as in the spinning of the so called staple fiber yarns some of these sporadic attempts have passed out with the necessity of their use while others have shown themselves to be of sufficient worth to remain in the general body of textile products the fact that several reprintings were called for in the third edition of this book has encouraged the author to feel that his attempt to bring together such a large mass of scientific and technical data concerning the textile fibers has been more or less appreciated by those interested in the fiber industries he has scoured the literature of this country and europe rather thoroughly in the search for information and anything of interest or value he has not hesitated to take and has endeavored to fit it in its proper place in this volume the patent literature has also been thoroughly digested though it has been the author s experience that in this province great care must be exercised so as not to distort in one direction or the other the technical values in a patent 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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plant fibers their composites and applications provides a systematic and comprehensive account of recent research into plant fibers including the synthesis of plant fiber reinforced polymer composites characterization techniques and a broad spectrum of applications plant fibers have generated great interest among material scientists due to their characteristics

which include availability low cost biodegradability easy processability excellent thermo mechanical properties low acoustic properties they have been proven to be excellent replacements for synthetic fibers and have found applications in advanced polymer composites coverage includes every stage of working with plant fibers including synthesis processing characterization applications recycling and life cycle assessment of plant fibers and their composites drawing on work from leading researchers in industry academia government and private research institutions across the globe this is a definitive one stop reference for anyone working with plant fibers addresses emerging applications of plant fiber reinforced polymer composites in automotive aerospace and construction and building applications provides detailed coverage of the modern processing technologies and synthesis for plant fibers and their composites includes valuable technical information relating to a range of new and nonconventional plant fibers

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excerpt from the textile fibres their physical microscopical and chemical properties the present book it is hoped will be of assistance to both the practical operator in textiles and the student of textile subjects it has been the outgrowth of a number of years of experience both in the teaching of textile chemistry and in the practical observation in the many mill problems which have come under the notice of the author in the practice of his profession the textile fibres form the raw materials for many of our greatest industries and hence it is of importance that the facts concerning them should be systematized into some form of scientific knowledge the author has attempted however not to allow the purely scientific phase of the subject to overbalance the practical bearing of such knowledge on the every day problems of industry 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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