

# The Textile Fibers Their Physical Microscopical And Chemical Properties

The Textile Fibers Handbook of Textile Fibres Handbook of Textile Fibre  
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Properties of Textile Fibres The Chemistry of Textile Fibres, 2nd Edition Joseph  
Merritt Matthews James Gordon Cook S Eichhorn Stephen Eichhorn H. V.  
Sreenivasa Murthy Joseph Merritt Matthews James Robert Donald Burlington  
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Committee on Interstate and Foreign Commerce Joseph Merritt Matthews Joseph  
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a comprehensive survey of the natural fibers animal vegetable and mineral on which  
we depended for our textiles until comparatively recently

due to their complexity and diversity understanding the structure of textile fibres is of  
key importance this authoritative two volume collection provides a comprehensive  
review of the structure of an extensive range of textile fibres volume 1 begins with  
an introductory set of chapters on fibre structure and methods to characterise fibres  
the second part of the book covers the structure of manufactured polymer fibres  
such as polyester polyamides polyolefin elastomeric and aramid fibres as well as  
high modulus high tenacity polymer fibres chapters discuss fibre formation during  
processing and how this affects fibre structure and mechanical properties a  
companion volume reviews natural regenerated inorganic and specialist fibres edited  
by leading authorities on the subject and with a team of international authors the two  
volumes of the handbook of textile fibre structure is an essential reference for textile  
technologists fibre scientists textile engineers and those in academia

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reviewing natural fibres such as cellulosic cotton protein wool and silk fibres part two considers regenerated cellulosic protein alginate chitin and chitosan fibres the final part of the book discusses inorganic fibres such as glass carbon and ceramic fibres as well as specialist fibres such as thermally and chemically resistant fibres optical and hollow fibres chapters review how fibre structure contributes to key mechanical properties a companion volume reviews the structure of manufactured polymer fibres edited by leading authorities on the subject and with a team of international authors the two volumes of the handbook of textile fibre structure is an essential reference for textile technologists fibre scientists textile engineers and those in academia discusses how fibre structure contributes to key mechanical properties reviews natural fibres such as cellulosic cotton and silk fibres and considers various regenerated fibres examines inorganic fibres including glass and carbon as well as specialist fibres such as chemically resistant and optical fibres

introduction to textile fibres provides necessary information for beginners in many textile institutions this book was widely referred by students and staff for teaching diploma and degree courses in 1989 the book won the coveted best technical book in textile century mills award through textile association india this revised edition of the book offers new topics and updated statistical figures

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

a groundbreaking text to the study of textile fibers that bridges the knowledge gap between fiber shape and end uses textile fiber microscopy offers an important and comprehensive guide to the study of textile fibers and contains a unique text that prioritizes a review of fibers microstructure macrostructure and chemical composition

the author a noted expert in the field details many fiber types and includes all the possible fiber shapes with a number of illustrative micrographs the author explores a wealth of topics such as fiber end uses fiber source and production a history of each fiber and the sustainability of the various fibers the text includes a review of environmentally friendly fibers and contains information on the most current fiber science by putting the focus on fibers that have been mechanically or chemically recycled for use in textile production the author also offers an exploration of issues of textile waste and the lack of textile recycling that can help public policymakers with ways to inform and regulate post industrial and post consumer textile waste issues this vital guide contains an accompanied micrograph for many fibers presented includes information on how fiber microstructure is connected to fabric properties and how it affects the end use of fabrics offers a review of the sophistication of textile fibers from a scientific point of view presents a comparative textile fiber review that is appropriate for both for students textile experts and forensic scientists written for students and professionals of apparel design and merchandising and forensic scientists textile fiber microscopy presents an important review of textile fibers from a unique perspective that explores fibers microstructure macrostructure and chemical composition

the identification of fibers is important to the textile industry forensic science fashion designers and historians among others identifying fibers involves observing the physical and chemical properties of the fiber for which there are a wide diversity of instruments available this book provides a comprehensive review of fiber structure the diversity of instruments available to identify fibers and applications for a range of industries the first part of the book examines the main fibers their structure and characteristics part two focuses on methods of fiber identification ranging from microscopic to dna analysis specific applications including how textiles are identified

in forensic investigations identification of textile fibers is an important text for forensic scientists police and lawyers who may be involved with the use of textile fibers to provide evidence in criminal cases it will also be relevant for textile designers technologists and inspectors wishing to assess fiber quality and understand fiber damage provides a comprehensive review of the main types of fibre together with their structure characteristics and identification assesses methods of fibre identification from optical microscopy to dna analysis as well as instruments available to identify fibres

ever wondered why a particular type of fibre is used for a certain application readers of this book will gain an appreciation of the answer to this question and more through understanding the chemistry behind the properties of the fibres providing a comprehensive overview of the various types of textile fibres that are available today ranging from natural fibres to high performance fibres that are very technologically advanced the book is a revised and updated new edition of a highly successful text textiles are ubiquitous materials that many of us take for granted in our everyday lives we rely on our clothes to protect us from the environment and use them to enhance our appearance textiles also find applications in transport healthcare construction and many other industries the third edition of the chemistry of textile fibres updates a significant amount of the information provided in the previous editions such as the synthesis from renewable resources of monomers for producing synthetic fibres emerging applications of nanofibres production of electrically conducting fibres incorporating graphene and carbon nanotubes and nano finishing of textiles it also gives greater emphasis to those aspects of textile chemistry that combat adverse environmental impact including the chemical decomposition of synthetic polymers and strategies to reduce the damaging impact of microfibers it introduces the production of micro and nanomaterials from cellulose as an

alternative to relatively toxic and non ecofriendly micro and nanomaterials produced from other sources together with the bio functionalisation of textiles students following a level courses or equivalent and first year undergraduate students reading textile technology subjects at university will find this book a valuable source of information

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

excerpt from the d104ile 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 on textile subjects it has been the outgrowth of a number of years of experience in the teaching of textile chemistry as well as prae tical observation in the many mill problems which have come under the notice of the author 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

encyclopedic in scope this is the foremost guide and reference to the structure and physical properties of textile fibers it covers in detail all physical properties relevant to natural and synthetic textile fibers a 73 page foundation chapter provides a thorough introduction to fiber structure followed by separate chapters on each of 25 physical properties each of these chapters provides a detailed examination of basis in theory practical considerations in applications experimental techniques and findings two chapters added to this third edition cover high performance fibers and flex fatigue and other forms of failure the 738 page text is illustrated by more than 500 photographs micrographs diagrams and other schematics the text is supplemented by more than 100 tables and graphs providing properties and performance data in convenient form

textiles are ubiquitous materials that many of us take for granted in our everyday lives we rely on our clothes to protect us from the environment and use them to enhance our appearance textiles also find applications in transport healthcare construction and many other industries the revised and updated 2nd edition of the chemistry of textile fibres highlights the trend towards the synthesis from renewable resources of monomers for making synthetic fibres it contains new information on the influence of legislation and the concerns of environmental organisations on the use of chemicals in the textile industry new sections on genetically modified cotton anti microbial materials and spider silk have been added as well as a new chapter covering functional fibres and fabrics this book provides a comprehensive overview of the various types of textile fibres that are available today ranging from natural fibres to the high performance fibres that are very technologically advanced readers will gain an appreciation of why particular types of fibre are used for certain applications through understanding the chemistry behind their properties students following a level courses or equivalent and first year undergraduate students reading



textile technology subjects at university will find this book a valuable source of information

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