
The Chemistry Of Textile Fibres

Dyeing and Chemical Technology of Textile Fibres

The Textile Fibres

Microscopy of Textile Fibres

Identification of Textile Fibres

The Textile Fibres

Chemistry of the Textiles Industry

Textile Fibres

The Textile Fibers

TEXTILE FIBRES THEIR PHYSICAL

The Textile Fibres; Their Physical, Microscopical
and Chemical Properties - Primary Source Edition

The Textile Fibres

The Textile Fibers

The Chemical Technology of Textile Fibres

Experiments in Textile and Fibre Chemistry

Textile Fibres

Dyeing and Chemical Technology of Textile Fibres

The Chemical Technology of Textile Fibres

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Identification of Textile Fibers

TEXTILE FIBERS

Physico-chemical Aspects of Textile Coloration

Handbook of Textile Fibres

Handbook of Textile Fibre Structure

Fiber Science
The Textile Fibers
Fundamentals of Fiber Science
Textile Fiber Microscopy
Dyeing and Chemical Technology of Textile Fibres
The Chemistry of Textile Fibres, 2nd Edition
The Chemical Technology of Textile Fibres
The Chemistry of Textile Fibres
Introduction To Textile Chemistry
The Coloration of Wool and Other Keratin Fibres
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Handbook of Fiber Science and Technology:
Volume 1

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Chemistry Of
Textile
Fibres*

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CUMMINGS KENNY

Dyeing and Chemical Technology of Textile Fibres

Wentworth Press
First published in 1962,
and now in its fourth
edition, Physical
properties of textile
fibres has become a
classic, providing the
standard reference on

key aspects of fibre
performance. The new
edition has been
substantially
reorganised and
revised to reflect new
research. After
introductory chapters
on fibre structure,
testing and sampling,
the book reviews key
fibre properties, their
technical significance,
factors affecting these
properties and
measurement issues.

Each chapter covers both natural and synthetic fibres, including high-performance fibres. The book first reviews properties such as fineness, length and density. It then considers thermal properties and reaction to moisture. A further group of chapters then reviews tensile properties, thermo-mechanical responses, fibre breakage and fatigue. Finally, the book discusses dielectric properties, electrical resistance and static, optical properties and fibre friction. Written by one of the world's leading authorities, the fourth edition of *Physical properties of textile fibres* consolidates its reputation as a standard work both for those working in the

textile industry and those teaching and studying textile science. A standard reference on key aspects of fibre performance. An essential read and reference for textile technologists, fibre scientists, textile engineers and those in academia. Provides substantial updated material on fibre structure and new test methods, data and theories regarding properties of textile fibres.

The Textile Fibres

Garland Science

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relevant.

Microscopy of Textile Fibres DEStech

Publications, Inc

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 2 begins by 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
Identification of Textile Fibres Nabu Press
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The Textile Fibres John Wiley & Sons

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Chemistry of the Textiles Industry

Elsevier

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Textile Fibres Scholar's Choice

Excerpt from *The Fibres: 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 mercerised 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 www.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.

The Textile Fibers
Springer Science & Business Media
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 examines the main fibers, their structure, and characteristics. It then focuses on methods of fiber identification,

ranging from microscopic to DNA analysis. It includes coverage of specific applications, including how textiles are identified in forensic investigations.

TEXTILE FIBRES THEIR PHYSICAL John Wiley & Sons

Connects fiber chemistry and structure to properties that can be designed and engineered. Micro- and nanoscale, synthetic and natural polymer and non-polymer fibers explained with applications to industrial, electronic, biomedical and energy. Information pertinent for fiber, textile, composite, polymer and materials specialists. This volume provides the basic chemical and mathematical theory

needed to understand and modify the connections among the structure, formation and properties of many different types of manmade and natural fibers. At a fundamental level it explains how polymeric and non-polymeric fibers are organized, how such fibers are formed, both synthetically and biologically, and how primary and secondary properties, from basic flow to thermal and electrical qualities, are derived from molecular and submolecular organization, thus establishing the quantitative and predictive relationships needed for fiber engineering. The book goes on to show how fiber chemistry and modes of processing for dozens of materials

such as silks, ceramics, glass and carbon can be used to control functional optical, conductive, thermal and other properties. Its discussion ranges over microscale and nanoscale fibers (nanofibers), covering methods such as spinning and electrospinning, as well as biological fiber generation through self-assembly. Technologies in this text apply to the analysis and design of fibers for industrial, electronic, optical, medical and energy storage applications. *The Textile Fibres; Their Physical, Microscopical and Chemical Properties - Primary Source Edition* John Wiley & Sons

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

The Textile Fibres

CRC Press

Wool and hair; The

wool fibre; Wool scouring, etc.; Wool bleaching; Silk; Cotto; Otheir textile fibres; Oils and soaps; Water; Tests for textile fibres; Chemicals used in textile work.

The Textile Fibers

Forgotten Books

Experiments in Textile and Fiber Chemistry focuses on selected experiments in the chemistry of fibrous polymers and ancillary materials designed primarily for undergraduate students in technical colleges, polytechnics, and universities. The book first reviews the determination of 'available' chlorine in sodium hypochlorite solution, hardness of water, and estimation of iron in water. The text also ponders on the determination of the saponification and

iodine values of oils, use of the pH meter, and use of pH indicators and acid-base titrations. The publication examines the determination of the nitrogen content of organic substances by the Kjeldahl method; separation of amino acids by paper chromatography and paper electrophoresis; and thin layer chromatography. Identification of N-terminal amino acids by the 'Dansyl' method; supercontraction of wool; rendering wool resistant to acid dyeing; effect of breaking disulfide cross-links in wool; and the formation of lanthionine linkages in wool are discussed. The text is a valuable reference for textile and fiber experts

interested in the chemistry of fibrous polymers and ancillary materials.

The Chemical Technology of Textile Fibres Butterworth-Heinemann

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.

Experiments in Textile and Fibre Chemistry Elsevier

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 www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books

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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. *Dyeing and Chemical Technology of Textile Fibres* Elsevier An introduction to the structure and properties of polymeric fibers, with emphasis on fibers used as textiles and industrial fibers. Part One introduces fundamental concepts of organic fiber chemistry and

morphology. Part Two presents the most important aspects of mechanical properties. Up-to-date coverage, including treatment of high performance fibers, superabsorbants, liquid crystal polymers, electrical conductivity, and other current topics. Emphasis on fundamental principles. Shows applications of basic principles in real materials. The Chemical Technology of Textile Fibres Elsevier General classification; Asbestos as a textile fiber. Wool: its origin and classification. Physical structure and properties of wool. The chemical nature and properties of wool and hair fibers. Action of chemical agents on wool. Reclaimed wool and shoddy. Minor hair

fibers. Silk: its origin and cultivation.

Physical properties of silk. Cotton. Chemical properties of cotton.

Linen. Jute, ramie and hemp. General analysis of the textile fibers.

Testing of textile fabrics. Analysis of fibers and yarns in fabrics.

The Textile Fibers

Wentworth Press

Keratin fibres, particularly wool fibres, constitute an important natural raw material in textiles due to their comfort and thermal properties. Wool coloration demands an understanding of the complex nature of the interplay between wool fibre

chemistry, morphology and the coloration processes. The Coloration of Wool and other Keratin Fibres is a comprehensive

treatment, written by leading international experts, of the chemistry and chemical processes involved in wool dyeing, printing, preparation and finishing. The book covers: the chemical and physical structure of wool keratin fibres, detailing their complex heterogeneity and the subtle links between fibre structure and dyeability the coloration of fabrics containing wool, including a variety of wool blends such as wool/silk, wool/polyester and wool/cotton, and luxury keratin fibres such as mohair, cashmere and camel the chemistry of the various types of dyes utilised in wooldyeing and in-depth discussions on the physical properties

to optimise these processes practical application of dyes to wool in all its forms, loose stock, combed tops, yarns and piece goods, is covered in the chapter on wool dyeing machinery two chapters, one on bleaching and whitening and one on dyeing human hair, provide a valuable extension to the topic of cosmetic chemistry. The Coloration of Wool and other Keratin Fibres is essential reading for professionals world-wide working in companies involved in the dyeing and printing of wool, wool blends and other keratin fibres and also for the producers of dyes and auxiliary dyeing agents. It is a valuable resource for teachers and students of

universities and technical institutes, as well as for researchers who are focusing their investigations on wool, wool blends, human hair or dyes and auxiliaries. Published in partnership with the Society of Dyers and Colourists (SDC). Find out more at <http://www.wiley.com/go/sdc> www.wiley.com/go/sdc/a-Physical-Properties-of-Textile-Fibres Royal Society of Chemistry. The manufacture and processing of textiles is a complex and essential industry requiring many diverse skills to ensure profitability. New products are continually being developed, and reflect the energy and innovation of those working in the field. This book focuses on

the technological aspects of the chemical processing of textiles, and on the modifications necessary for specific work environments. Coverage ranges from fibre structure and its relationship to tensile properties, textile aesthetics, comfort physiology, and end-use performance, through to the effect of domestic processing by the consumer on the textile product. The industry is constantly under environmental pressure, and the book examines the nature of environmental control and the development of alternative technology to produce less environmental impact. In order to provide a balanced view of the current situation, authors have been drawn from

academia, research institutes and industry to produce a text that will be useful to both industrial readers and university students. In conclusion I would like to thank the authors for their dedication and their contributions.

Reactive Dyes for Textile Fibres

Royal Society of Chemistry
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