The Textile Fibers Their Physical Microscopical And Chemical Properties

Matthews' Textile Fibers Joseph Merritt Matthews 1947

The Textile Fibers, Their Physical, Microscopical and Chemical Properties Joseph Merritt Matthews 1924

Books

Matthews' Textile Fibers

The Textile Fibers, Their Physical, Microscopical and Chemical Properties Joseph Merritt Matthews 1924


Physical Properties of Textile Fibers W. S. Hourie 1908-1910 First published in 1962, and now in its fourth edition, the book has become a standard reference for the aspects of fibre performance. The new edition has been substantially revised 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 reactions to moisture. A further group of chapters then reviews tensile properties, thermo-mechanical responses, fibre breakup and fatigue. Finally, the book discusses electrical properites, electrical resistance and static, optical properties and fibre friction. Written by one of the world’s leading authors, 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 structures and new test methods, data and theories regarding properties of textile fibres.

The Textile Fibers J. Merritt Matthews 1916

The Textile Fibers J. Merritt Matthews 1904


The Textile Fibers J. Merritt Matthews 1923

The Textile Fibers Joseph Merritt Matthews 1915-1919 This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Matthews' Textile Fibers Herbert Richard Mausersberger 1954

The Textile Fibers J. Merritt Matthews 1954

The Textile Fibers Joseph Merritt Matthews 1904

The Textile Fibers, Their Physical, Microscopic, and Chemical Properties Joseph Merritt Matthews 1954

Matthews' Textile Fibers-Augusta G. Matthews 1924

Advances in Agrophysical Research-Stastvicka Grundas 2013-07-13 The idea of this book was born due to the rapid development of the interest in agricultural sciences. The book is a collection of both - theoretical material, and practical experience in the processing of fibres and how this creates industrial waste. Covers a wide range of natural fibres in detail, from traditional silk and wool to electrospun biofibers. Provides the latest updates on designing natural fibres and applying them to the development of new products.

Textile Fibers: Their Physical, Microscopic, and Chemical Properties J. Matthews 1924

Fundamentals of Natural Fibers and Textiles M. Ibrahim H. Moomaw 2023-06-26 The textile industry is focused on its search for alternative green fibres with the aim of providing high-quality products which are fully recyclable and biodegradable. Natural textile materials from renewable sources play an increasingly important role in the industry due to their unique properties and functionalities, as well as their sustainability. Fundamentals of Natural Fibers and Textiles covers all the fundamental and basic information about natural fibres and textiles. Many different fibres are covered from their origin, through their extraction, treatment, and applications. The latest methods for characterisation and testing of natural fibres are all addressed with reference to cutting-edge industry trends. This uniquely comprehensive and basic approach to the topic provides the student or entry point to the field of textile science. The book is a practical working reference for researchers, students, and manufacturers of such products. Explains the characteristics of natural fibres to show how they compare to synthetic fibres. Provides a range of case studies and up-to-date research. Reveals the impact of the processing of fibres and how this creates industrial waste. Covers a wide range of natural fibres in detail, from traditional silk and wool to electrospun biofibers. Provides the latest updates on designing natural fibres and applying them to the development of new products.

The Textile Fibers Joseph Merritt Matthews 1947 Physical properties of fibres; Microscopic and chemical properties of fibres; Cellulose: sources, constitution, and chemical properties; History, growth and statistical of cotton; Microscopical characteristics of cotton fibre; The physical properties of cotton; Cotton: the natural vegetable fabric; Structure, development, growth, and statistics. Microscopical and physical properties of wool; Chemical nature and properties of wool; Specialty hair fibers; Textile fibers, brush fibers, and down; The silk fibers; Regenerated rayon fibers, flames, and suture; Fiber identification methods; Quantitative fiber analysis; Fiber-testing methods.

The Textile Fibers, Their Physical, Microscopical and Chemical Properties Herbert Richard Mausersberger 1954

Matthews' Textile Fibers, Their Physical, Microscopical and Chemical Properties. 5th Edition Prepared by a Staff of Specialists Under the Editor-ship of Herbert R. Mausersberger... Herbert R. Mausersberger 1948

TEXTILE FIBRES THEIR PHYSICAL-: J. Merritt Joseph 1. Matthews 2016-08-29 This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

A Brief Study of the Textile Fibers and Their Physical and Chemical Properties-Rhode Island School of Design 1944

The Textile Fibers-Joseph Merritt Matthews 1911-11-02 Except from The 10016 Fibres: Their Physical, Microscopic, and Chemical Properties The present book, it hoped, will be of assistance to both the practical operator in textiles and student in related subjects. It has been the outcome of a number of years of experience in the teaching of textile chemistry, as well as practical 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 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 work while repairing imperfections present in the aged copy. In rare cases, an imperfection in the original work, such as a blemish or missing page, may replicate 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-Joseph Merritt Matthews 1913

Fundamentals of Natural Fibers and Textiles M. Ibrahim H. Moomaw 2023-06-26 The textile industry is focused on its search for alternative green fibres with the aim of providing high-quality products which are fully recyclable and biodegradable. Natural textile materials from renewable sources play an increasingly important role in the industry due to their unique properties and functionalities, as well as their sustainability. Fundamentals of Natural Fibers and Textiles covers all the fundamental and basic information about natural fibres and textiles. Many different fibres are covered from their origin, through their extraction, treatment, and applications. The latest methods for characterisation and testing of natural fibres are all addressed with reference to cutting-edge industry trends. This uniquely comprehensive and basic approach to the topic provides the student or entry point to the field of textile science. The book is a practical working reference for researchers, students, and manufacturers of such products. Explains the characteristics of natural fibres to show how they compare to synthetic fibres. Provides a range of case studies and up-to-date research. Reveals the impact of the processing of fibres and how this creates industrial waste. Covers a wide range of natural fibres in detail, from traditional silk and wool to electrospun biofibers. Provides the latest updates on designing natural fibres and applying them to the development of new products.
two goes on to explore the improvement of natural fibre properties and production through breeding and cultivation, beginning with a discussion of flax and cotton. Improved natural fibre production through the prevention of fungal growth is explored, along with the use of genetic engineering and biotechnology to enhance desirable characteristics. Finally, the wider impact of natural textile production is discussed, using wild silk enterprise programs as an example. With its distinguished editor and international team of expert contributors, the two volumes of the Handbook of natural fibres are essential texts for professionals and academics in textile science and technology. Provides an essential guide to a wide range of natural fibres and highlights key techniques for their improvement. Reviews key types and fundamental properties of natural textile fibres, addressing the production, identification and testing of a range of cotton, wool, silk and flax fibres. Explores the improvement of natural fibre properties and production through breeding and cultivation, beginning with a discussion of fibres of flax and cotton.

The Grove Encyclopedia of Materials and Techniques in Art - Gerald W. R. Ward 2008 Provides over 1400 articles that deal with materials and techniques in art from ancient times to the present, including such media as ceramics, sculpture, metalwork, painting, works on paper, textiles, video, and computer art.

Handbook of Tensile Properties of Textile and Technical Fibres - A. H. Bunsell 2009-10-19 Fibres usually experience tensile loads whether they are used for apparel or technical structures. Their form, which is long and fine, makes them some of the strongest materials available as well as very flexible. This book provides a concise and authoritative overview of tensile behaviour of a wide range of both natural and synthetic fibres used both in textiles and high performance materials. After preliminary chapters that introduce the reader to tensile properties, failure and testing of fibres, the book is split into two parts. Part one examines tensile properties and failure of natural fibres, such as cotton, hemp, wool and silk. Part two discusses the tensile properties and failure of synthetic fibres ranging from polystyrene, polyester and polyethylene fibres to carbon fibres. Many chapters also provide a general background to the fibre, including the manufacture, microstructure, factors that affect tensile properties as well as methods to improve tensile failure. With its distinguished editor and array of international contributors, Handbook of tensile properties of textile and technical fibres is an important reference for fibre scientists, textile technologists and engineers, as well as those in academia. Provides an overview of tensile behaviour of a wide range of both natural and synthetic fibres. Examines tensile characteristics, tensile failure of textiles fibres and factors that affect tensile properties. Discusses microstructures and each type of fibre from manufacture to finished product.

Miscellaneous Circular - 1926


Handbook of Textile Fibre Structure - Stephen Eichhorn 2009-10-19 Due to their complexity and diversity, understanding of 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. The first title of a authoritative two-volume collection that provides a comprehensive review of the structure of a range of textile fibres. Provides an overview of the development of fibre structure and methods to characterise fibres. Examines the structure of both traditional and new fibres and natural and manufactured fibres.

The Chemical Technology of Textile Fibres - Their Origin, Structure, Preparation, Washing, Bleaching, Dyeing, Printing and Dressing - Georg Von Georgievics 2013-01-31 This early work on textile chemistry is both expensive and hard to find in its first edition. It contains details on the chemical technology of processes such as dyeing and bleaching. This is a fascinating work and is thoroughly recommended for anyone interested in the textile industry. Many of the earliest books, particularly those dating back to the 19th and before, are now extremely scarce. We are republishing these classic works in affordable, high quality, modern editions, using the original text and artwork.

Physical Properties of Textile Fibres - William Ernest Morton 1993 Encyclopedic in scope, this is the foremost guide and reference to the structure and physical properties of textile fibres. It covers in detail all physical properties relevant to natural and synthetic textile fibres. A 75-page foundation chapter provides a thorough introduction to fibre 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 fibres, and fibre 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.