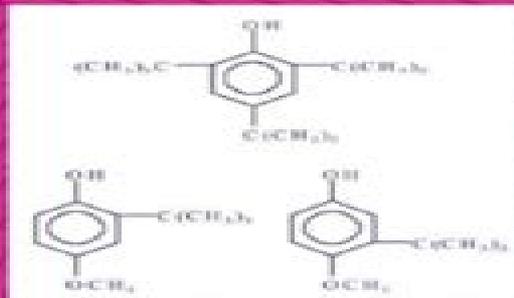


WOODHEAD PUBLISHING IN TEXTILES



Chemical testing of textiles

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Chemical Testing of Textiles Q Fan, 2005-09-28 *Chemical Testing of Textiles* is a comprehensive book aimed at giving a full overview of chemical testing for both academics and industry. It provides an extensive coverage of the chemical analysis procedures for a broad range of textiles. It introduces fundamental chemical concepts and rudimentary procedures and tries to balance the theoretical and practical parts of the contents. In most cases the chemical analysis is undertaken with a test method regulated and updated by a professional organization. It serves as a great accompaniment to Physical testing of textiles. It has been compiled with the hard work of a team of contributors including professors, material researchers, and textile analysts from Canada, Britain, Germany, and the United States of America. The opening chapter deals with fibre and yarn identification and is followed by nine separate chapters discussing different chemical analyses with regard to textiles. These include leather, feather, down, textile wet processes, fibre finishes, coatings, performance related tests, wastewater, and dyes and pigments. This book is a valuable resource for academic and industrial chemists, lecturers, and students of textile chemistry and related subjects. It will also serve as a practical guide for textile plant managers, process engineers, technologists, qualified practitioners, textile research and testing institutes, quality inspectors, chemist, colourists, and textile designers.

A comprehensive overview of the chemical testing of textiles for both academia and industry. Provides extensive coverage of the chemical analysis procedures for a broad range of textiles. Compiled by a worldwide team of renowned experts.

Chemical Management in Textiles and Fashion Subramanian Senthilkannan Muthu, 2020-09-29 *Chemical Management in Textiles and Fashion* helps readers understand current pressures on the textile industry surrounding the responsible management of chemicals. The book was written in response to industrial movements like Greenpeace's Detox Campaign and Zero Discharge of Hazardous Chemicals, which have both helped to motivate retailers, manufacturers, and regulatory bodies on this issue. Chapters cover the entire supply chain, taking into account the use of chemicals in processing, manufacturing, and recycling garments. In addition to environmental sustainability, this valuable resource covers all the main aspects of chemical management, including chemical risk assessments, chemical management systems, and lifecycle assessment. While providing a survey of the latest regulations and standards on chemical management, this book also examines emerging green alternatives to help readers find innovative solutions for sustainable chemical processes. Covers all relevant regulations and certifications for chemical management in textiles. Provides technical details on the hazardous chemicals often used in the textile industries. Explores a range of safe alternatives. Addresses chemical management throughout the textile supply chain.

Fabric Testing Jinlian Hu, 2008-09-09 The textile industry is becoming an increasingly competitive environment. Differentiating products by quality is particularly important. Testing can be performed both to improve product quality and achieve compliance to international, regional, or retailer-specific standards. Fabric testing provides a comprehensive review of the tests available for fabrics. The book begins with introductory chapters which discuss

the scope importance and statistical analysis of fabric testing The book then reviews various types of fabric tests such as fabric composition testing physical and mechanical tests fabric chemical testing how to test appearance permeability comfort and flammability as well as dyeing and colouring tests and key issues in testing textile samples With its distinguished editor and international team of contributors Fabric testing is a valuable resource for designers technologists quality inspectors and testing institutes in the textile industry It is also relevant for academics and students within the textile field Reviews various types of fabric tests including fabric composition and fabric chemical testing Discusses the scope significance and statistical analysis of fabric testing Assesses the importance of fabric testing to both product quality and industry standard compliance

Chemical Testing of Textiles David M. Hall,1974 *Physico-chemical Aspects of Textile Coloration* Stephen M.

Burkinshaw,2016-02-08 The production of textile materials comprises a very large and complex global industry that utilises a diverse range of fibre types and creates a variety of textile products As the great majority of such products are coloured predominantly using aqueous dyeing processes the coloration of textiles is a large scale global business in which complex procedures are used to apply different types of dye to the various types of textile material The development of such dyeing processes is the result of substantial research activity undertaken over many decades into the physico chemical aspects of dye adsorption and the establishment of dyeing theory which seeks to describe the mechanism by which dyes interact with textile fibres *Physico Chemical Aspects of Textile Coloration* provides a comprehensive treatment of the physical chemistry involved in the dyeing of the major types of natural man made and synthetic fibres with the principal types of dye The book covers fundamental aspects of the physical and chemical structure of both fibres and dyes together with the structure and properties of water in relation to dyeing dyeing as an area of study as well as the terminology employed in dyeing technology and science contemporary views of intermolecular forces and the nature of the interactions that can occur between dyes and fibres at a molecular level fundamental principles involved in dyeing theory as represented by the thermodynamics and kinetics of dye sorption detailed accounts of the mechanism of dyeing that applies to cotton and other cellulosic fibres polyester polyamide wool polyacrylonitrile and silk fibres non aqueous dyeing as represented by the use of air organic solvents and supercritical CO₂ fluid as alternatives to water as application medium The up to date text is supported by a large number of tables figures and illustrations as well as footnotes and widespread use of references to published work The book is essential reading for students teachers researchers and professionals involved in textile coloration Apparel

Quality Janace E. Bubonia,2014-10-28 This user friendly guide to evaluating apparel quality presents the roles of product designers manufacturers merchandisers testing laboratories and retailers from product inception through the sale of goods to ensure quality products that meet customer expectations Bubonia provides an overview of apparel production with emphasis on quality characteristics and cues consumer influences and motivations impacting purchasing decisions and the relationship of apparel manufacturing and production processes cost price point and the quality level of an apparel product A

key aspect of the book is the focus on both U S and International standards and regulations required for apparel analysis performance labeling requirements and safety regulations The text is highly illustrated with images of stitch and seam types plus photos of their uses in actual garments providing students with the tools needed to skillfully evaluate and critique quality elements in apparel and textile products Key Features Supplementary Apparel Quality Lab Manual sold separately includes hands on lab activities and projects that simulate real world garment analysis and material testing Industry Scenario boxes present case studies highlight real world situations such as the Lululemon recall and the environmental impact of apparel manufacturing Provides an illustrated guide to ASTM stitch and seam types Teaching Resources Instructor s Guide with Test Bank PowerPoint presentations for each chapter PLEASE NOTE Purchasing or renting this ISBN does not include access to the STUDIO resources that accompany this text To receive free access to the STUDIO content with new copies of this book please refer to the book STUDIO access card bundle ISBN 9781501395338 STUDIO Instant Access can also be purchased or rented separately on BloomsburyFashionCentral com

The Impact and Prospects of Green Chemistry for Textile Technology Shahid Ul Islam, Bhupendra Singh Butola, 2018-11-02 The Impact and Prospects of Green Chemistry for Textile Technology provides a review and summary of the role of green chemistry in textiles including the use of green agents and sustainable technologies in different textile applications The book systematically covers the history and chemistry of eco friendly colorants chitin chitosan cyclodextrin biomordants antimicrobial UV protective flame retardant insect repellent textiles and advanced pre and post treatment technologies such as the sonochemistry and plasma methods currently employed in functional modifications The book also pays attention to the remediation of textile effluents using novel sustainable and inexpensive adsorbents Written by high profile contributors with many years of experience in textile technology the book gives engineers and materials scientists in the textile industry the information they need to effectively deploy these green technologies and processes Introduces green chemistry and sustainable technologies and explores their role in different textile applications Examines the use of renewable materials such as biopolymers dyes and pigments biomordants polyphenols and plant extracts in functional finishing applications Deals the functional modification of textiles using state of the art biotechnology and nanotechnology

Chemical Testing of Textiles David M. Hall, 1979
Microscopic and Chemical Testing of Textiles Paul-August Koch, 1963 **The Indian Textile Journal** Sorabji M. Rutnagur, 2013 *A Selected List of References on the Chemical Testing of Textile Materials* American Home Economics Association. Textiles and Clothing Section. Committee on textile analysis, 1937 Microscopic and chemical Testing of textiles Paul-August Koch, 1963 *Chemical Testing and Analysis*, 1981* *Marks' Standard Handbook for Mechanical Engineers, 12th Edition* Ali M. Sadegh, William M. Worek, 2017-11-10 The 100th Anniversary Edition of the Bible for Mechanical Engineers Fully Revised to Focus on the Core Subjects Critical to the Discipline This 100th Anniversary Edition has been extensively updated to deliver current authoritative coverage of the topics most critical to today s Mechanical

Engineer Featuring contributions from more than 160 global experts Marks Standard Handbook for Mechanical Engineers Twelfth Edition offers instant access to a wealth of practical information on every essential aspect of mechanical engineering It provides clear concise answers to thousands of mechanical engineering questions You get accurate data and calculations along with clear explanations of current principles important codes standards and practices All new sections cover micro and nano engineering robotic vision alternative energy production biological materials biomechanics composite materials engineering ethics and much more Coverage includes Mechanics of solids and fluids Heat Strength of materials Materials of engineering Fuels and furnaces Machine elements Power generation Transportation Fans pumps and compressors Instruments and controls Refrigeration cryogenics and optics Applied mechanics Engineering ethics **Australian Chemical Engineering** ,1972 A.T.A. Journal ,2005 **Textiles. Quantitative Chemical Analysis. Mixtures of Silk and Wool Or Hair (Method Using Sulfuric Acid)** British Standards Institute Staff,1911-02-28 Textile testing Fibre testing textiles Chemical analysis and testing Quantitative analysis Chemical tests textiles Determination of content Textile fibres Mixtures Extraction methods of analysis Silk Wool fibres Wool Hair animal **Standardization News** American Society for Testing and Materials,2007 *Chemical Testing and Analysis. Publ. by Textile Institute* A. G. de Boos,1974 **Principles of Textile Testing** John E. Booth,1969

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