

International Fiber Science and Technology Series/ 2

Handbook of Fiber Science  
and Technology: Volume II

Chemical Processing of  
Fibers and Fabrics

Functional  
Finishes

**Part B**

edited by  
Menachem Lewin  
Stephen B. Sello

# Handbook Of Fiber Science And Technology Chemical Processing Of Fibers And Fabrics Functional Finishes

**Menachem Lewin, Eli M. Pearce**



## **Handbook Of Fiber Science And Technology Chemical Processing Of Fibers And Fabrics Functional Finishes:**

*Handbook of Fiber Science and Technology Volume 2* Menachem Lewin, 2018-05-02 Continuing the outstanding coverage from Part A the authoritative information in Functional Finishes Part B makes your work with fibers and fabrics cost effective offers practical guidance in finishing techniques including flame retardancy water and oil repellency soil release electroconductivity and radiation and eases your continuing study of this expanding field with numerous current references with many original findings not previously cited As new advances widen the scope of this field each volume of Handbook of Fiber Science and Technology becomes an indispensable acquisition for researchers Textile fiber polymer organic physical and biological chemists textile finishers and chemical manufacturers Plastics and chemical engineers materials scientists and wood and paper technologists will find them essential references They are also superior sources of supplementary reading for graduate and advanced undergraduate courses in polymer fiber and textile chemistry and technology chemical processing of fibers chemical technology and engineering and polymer processing

*Handbook of Fiber Science and Technology: Chemical processing of fibers and fabrics : functional finishes (2 pts.)* Menachem Lewin, Stephen B. Sello, 1983

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**Handbook of Fiber Science and Technology Volume 2** Menachem Lewin, Jack Preston, 1993-01-18 This text provides up to date coverage of both recently developed and potentially available fibers emphasizing new applications Highlighting preparation properties practical industrial uses and future research directions for high technology this volume examines optical fibres aramid and polyimide fibres for heat resistant applications ceramic fibres fibres with thermal adaptability and electrically conducting polymers for fibres

*Chemical processing of fibers and fabrics* Menachem Lewin, *Handbook of Fiber Science and Technology: Chemical processing of fibers and fabrics* Menachem Lewin, Stephen B. Sello, 1983

**Textile Processing and Properties** T.L. Vigo, 2013-10-22 The type and amount of textile products have greatly proliferated over the last decade Concomitant textile processing to improve the properties and ultimate performance has also undergone dramatic changes Ready availability of instrumentation computers lasers and integration of these advances with similar progress in polymer material science have led to the need for a unified discussion on these topics The current book concisely discusses all aspects of textile processing modification and performance for four major topics preparation by fiber type dyeing and printing dye type theory and synthesis dye classification by structure and application improving functional and aesthetic textile properties physical chemical and physicochemical processes and concepts and performance chemical analysis

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**Surface Modification of Textiles** Q Wei,2009-08-26 The surface of textiles offers an important platform for functional modifications in order to meet special requirements for a variety of applications The surface modification of textiles may be achieved by various techniques ranging from traditional solution treatment to biological approaches This book reviews fundamental issues relating to textile surfaces and their characterisation and explores the exciting opportunities for surface modification of a range of different textiles Introductory chapters review some important surface modification techniques employed for improved functional behaviour of textiles and the various surface characterisation methods available Further chapters examine the different types of surface modification suitable for textiles ranging from the use of plasma treatments and physical vapour deposition to the use of nanoparticles Concluding chapters discuss surface modification strategies for various applications of textiles Surface modification of textiles is a valuable resource for chemists surface scientists textile technologists fibre scientists textile engineers and textile students Reviews fundamental issues relating to textiles surfaces and their characterisation Examines various types of surface modification suitable for textiles including plasma treatments and nanoparticles Discusses surface modification strategies for textile applications such as expansion into technical textile applications

*Waterproof and Water Repellent Textiles and Clothing* John T Williams,2017-11-21 *Waterproof and Water Repellent Textiles and Clothing* provides systematic coverage of the key types of finishes and high performance materials from conventional wax and silicone through controversial but widely used fluoropolymers and advanced techniques such as atmospheric plasma deposition and sol gel technology The book is an essential resource for all those engaged in garment development production and finishing and for academics engaged in research into apparel technology and textile science Rapid innovation in this field is driving new performance demands in many areas including the sporting and military sectors However another innovation driver is the regulatory framework in the USA Europe and globally addressing both health concerns e g with PFOS PFOA and environmental impacts e g C8 fluorocarbon finishes Both of these aspects are fully covered along with the replacement materials technologies currently available and under development In addition oleophobic and multifunctional coatings are discussed as are aspects of performance testing and applications in sportswear protective clothing and footwear Introduces innovative materials and technologies exploring their current and potential use across different sectors Provides expert guidance on the health and environmental aspects of key waterproof materials and coatings and their associated regulations Demystifies testing processes and design principles

**Advances in Functional Finishing of Textiles** Mohammad Shahid,Ravindra Adivarekar,2020-06-10 This book provides a comprehensive overview of the field of functional finishing of

textiles describing the state of the art research and well established techniques applied in the textile industry and covering all areas of textile dyeing and finishing It is intended for academic researchers and professionals in related scientific and engineering fields including textile engineering chemistry nanotechnology material science biotechnology and environmental science The book also provides reference material for stakeholders looking for innovative technologies and insights into the environmental and sustainability issues in the development of functional textiles and related products Advanced Textile Engineering Materials Shahid Ul Islam,B. S. Butola,2018-08-15 A groundbreaking book on the recent advances in chemical finishing innovative fabrication strategies frequently adopted for the mechanical finishing of textiles as well as the environmental issues in textile sectors Advanced materials are undoubtedly becoming very popular as substitutes for traditional materials in the textile engineering field Advanced textile engineering materials are giving way to innovative textile materials with novel functions and are widely perceived as offering huge potential in a wide range of applications such as healthcare defense personal protective equipment textile antennas garments for motion capture and sensors etc Advanced Engineering Textile Materials contains 13 chapters written by high profile contributors with many years of experience in textile technology and cover fundamental and advanced approaches associated with the design and development of textile implants conductive textiles 3D textiles smart stimuli textiles antiballistic textiles and fabric structures designed for a medical application intrabody extra body implantable non implantable and various modification and processing techniques

**Polyvinyl Alcohol Fibers** Ichirō Sakurada,1985-11-20 Handbook of Fiber Chemistry, Second Edition, Revised and Expanded Menachem Lewin,Eli M. Pearce,1998-02-26 Offers comprehensive coverage of the most important natural and synthetic fibers used in consumer goods agriculture industry medicine and engineering Second Edition provides entirely new coverage of topics such as vinyl fibers mammalian fibers related to wool cotton jute silk and kenaf fibers and acrylic fibers

Chemical Finishing of Textiles W D Schindler,P J Hauser,2004-08-10 The role of the textile finisher has become increasingly demanding and now requires a careful balance between the compatibility of different finishing products and treatments and the application processes used to provide textiles with desirable properties In one comprehensive book Chemical finishing of textiles details the fundamentals of final chemical finishing covering the range of effects that result from the interplay between chemical structures and finishing products After an introductory chapter covering the importance of chemical finishing the following chapters focus on particular finishing techniques from softening easy care and permanent press non slip and soil release to flame retardant antistatic and antimicrobial Within each chapter sections include an introduction mechanisms chemistries applications evaluations and troubleshooting The book concludes with a chapter on the future trends in chemical finishing Chemical finishing of textiles is an essential reference for all academic and industrial textile chemists and for those studying textile education programmes Discusses the advantages and disadvantages of every important type of chemical finish Combines technical understanding and practical experience concisely Essential tool to

assist in the demanding challenge of chemical finishing for textiles      **Handbook of Detergents, Part D** Michael Showell, 2016-04-19 Beyond use in the consumer markets detergents affect applications ranging from automotive lubricants to remediation techniques for oil spills and other environmental contaminants paper and textile processing and the formulation of paints inks and colorants Faced with many challenges and choices formulators must choose the composition of detergents      **Fiber Technology** Hans A. Krassig, 1984-07-25 PROCESSES FOR MANUFACTURING FILM TAPES AND FIBERS TAPE YARN TAPES YARN AND FILM FIBER PROCESSING MACHINE SYSTEMS FOR THE MANUFACTURE OF FILM TAPES FILM YARNS AND FIBERS THE PROSPECTS OF FILM TAPE AND FILM FIBER PRODUCTS      Handbook of Detergents - 6 Volume Set Uri Zoller, 2008-11-23 With contributions from experts and pioneers this set provides readers with the tools they need to answer the need for sustainable development faced by the industry The six volumes constitute a shift from the traditional mostly theoretical focus of most resources to the practical application of advances in research and development With con

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