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MATA LONDON

SMART COATINGS ON FIBERS AND TEXTILES

CRC Press

Active Coatings for Smart Textiles presents the latest information on active materials and their application to textiles in the form of coatings and finishes for the purpose of improving performance and creating active functional effects. This important book provides detailed coverage of smart coating types, processes, and applications. After an introduction to the topic, Part One introduces various types of smart and active coatings, including memory polymer coatings, durable and self-cleaning coatings, and breathable coatings. Technologies and related processes for the application of coatings to textiles is the focus of Part Two, with chapters devoted to microencapsulation technology, plasma surface treatments, and nanotechnology-based treatments. The book ends with a section on applications of smart textiles with responsive coatings, which are increasingly finding commercial niches in sportswear, protective clothing, medical textiles, and architecture. Introduces various types of smart and active coatings for textiles Covers technologies and application processes for the coating and finishing of textiles Reviews commercial applications of such coatings, including in sportswear, protective clothing, medical textiles and architecture

FABRICS FOR COATING: MILITARY APPLICATION

Elsevier Inc. Chapters

Basic principles; The value of water-resisting processes on fabrics; Processes under consideration; Processes for heavy cotton goods; Processes for clothing fabrics; Formule for the farmer; Testing water-resistance; New developments.

Joining Textiles Springer Science & Business Media

Plasma technologies present an environmentally-friendly and versatile way of treating textile

materials in order to enhance a variety of properties such as wettability, liquid repellency, dyeability and coating adhesion. Recent advances made in commercially viable plasma systems have greatly increased the potential of using plasma technology in industrial textile finishing. This pioneering book provides an essential guide to both the technology and science related to plasmas and its practical applications in the textile industry. The first part of the book discusses the science and technology behind plasmas. Chapters give detailed and comprehensive descriptions on the characteristics of plasmas and methods of control and treatment in the processing of textiles. Both low pressure cold plasma and atmospheric pressure cold plasma processes are described as well as the diagnosis and control of plasma parameters in plasma generating reactors. A chapter is devoted to the use of plasma technology to achieve nanoscale treatment of textile surfaces. The second part of the book concentrates on specific applications of plasma technologies. Chapters cover treatments for water and oil repellency of textiles, engineering of biomedical textiles and woollen finishing techniques through the use of plasma technologies. Further chapters cover the modification of fibres for use in composites and the potential use of plasma technologies for the finishing of fabrics made of man made fibres. The final chapter in the book gives a comprehensive analysis of the surface chemical and physical characterisation of plasma treated fabrics. Written by a distinguished international team of experts, Plasma technologies for textiles is an invaluable reference for researchers, scientists and technologists alike. Summarises both the science and technology of plasma processing, and its practical applications Discusses how plasma technology improves textile properties such as wettability and liquid repelling An invaluable reference for researchers, scientists and technologists

Coating Substrates and Textiles CRC Press

Coating and laminating are methods of both improving and modifying the physical properties and appearance of fabric. They have also facilitated the development of entirely new products and have led to innovations in the area of "smart" materials. Coating and lamination cuts across virtually every product group of the textile industry, including composites, where the scope for future development is extremely wide. This book helps bridge the gap between the two disciplines of textile technology and polymer chemistry, both of which are necessary for success in this area

of technical textiles, and it also touches on the related textile processes of fabric impregnation and foam finishing. The author emphasizes the factors influencing selection of materials and process machinery, especially with regard to environmental issues such as global warming. Product descriptions, production and test methods, and standards are discussed in detail. Coated and Laminated Textiles is a valuable source of reference that embraces apparel, medical, military, and industrial applications.

Waterproofing Textile Fabrics Springer Science & Business Media

This book provides knowledge on the finishing of substrates with a functionalising coating, emphasizing on technical textiles. The spectrum of topics covers different substrates and coating materials, process engineering and equipment components as well as complex machinery. The reader is presented with an overview of the technical capabilities of substrate coating, enabling the practitioner to design and implement new products. Furthermore the author goes into detail on various air pollution control procedures and economic issues of asset valuation.

Waterproof and Water Repellent Textiles and Clothing Smithers Rapra

The main goal in preparing this book was to publish contemporary concepts, new discoveries and innovative ideas in the field of woven fabric engineering, predominantly for the technical applications, as well as in the field of production engineering and to stress some problems connected with the use of woven fabrics in composites. The advantage of the book Woven Fabric Engineering is its open access fully searchable by anyone anywhere, and in this way it provides the forum for dissemination and exchange of the latest scientific information on theoretical as well as applied areas of knowledge in the field of woven fabric engineering. It is strongly recommended for all those who are connected with woven fabrics, for industrial engineers, researchers and graduate students.

COATED AND LAMINATED TEXTILES

MDPI

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 Polymer Coated Textiles Elsevier

Offers a comprehensive guide to the isolation, properties and applications of chitin and chitosan Chitin and Chitosan: Properties and Applications presents a comprehensive review of the isolation, properties and applications of chitin and chitosan. These promising biomaterials have the potential to be broadly applied and there is a growing market for these biopolymers in areas such as medical and pharmaceutical, packaging, agricultural, textile, cosmetics, nanoparticles and more. The authors - noted experts in the field - explore the isolation, characterization and the physical and chemical properties of chitin and chitosan. They also examine their properties such as hydrogels, immunomodulation and biotechnology, antimicrobial activity and chemical enzymatic modifications. The book offers an analysis of the myriad medical and pharmaceutical applications as well as a review of applications in other areas. In addition, the authors discuss regulations, markets and perspectives for the use of chitin and chitosan. This important book: Offers a thorough review of the isolation, properties and applications of chitin and chitosan. Contains information on the wide-ranging applications and growing market demand for chitin and chitosan Includes a discussion of current regulations and the outlook for the future Written for Researchers in academia and industry who are working in the fields of chitin and chitosan, Chitin and Chitosan: Properties and Applications offers a review of these promising biomaterials that have great potential due to their material properties and biological functionalities.

EXAMINATION OF TEXTILES WITH MATHEMATICAL AND PHYSICAL METHODS

Elsevier

Coated TextilesCRC Press

COTTON CLOTH FOR RUBBER AND PYROXYLIN COATING

CRC Press

The book presents the latest developments in narrow fabrics and smart materials from research institutions, machinery building companies and producers of such products, presented during the International Week of Narrow and Smart Textiles in Spring 2018 in Mönchengladbach, Germany. It also demonstrates different applications of braided and woven fabrics. Braided and woven narrow products are produced using completely different techniques, but have a lot of similarities in their applications - they are used as belts, ropes and tubes in areas ranging from medical textiles, cables, technical and home applications to large-scale transport belts and long tubes for transporting oil from the bottom of the ocean.

TEXTILES IN SPORT

Springer Science & Business Media

The book "Frontiers and Textile Materials will deal with the important materials that can be utilized for value-addition and functionalization of textile materials. The topics covered in this book includes the materials like enzymes, polymers, etc. that are utilized for conventional textile processing and the advanced materials like nanoparticles which are expected to change the horizons of textiles. The futuristic techniques for textile processing like plasma are also discussed. *Coating and Laminating of Textile Fabrics* Springer

This reference work provides a comprehensive and authoritative overview of functional polymers and polymeric materials, ranging from their synthesis and characterization, to properties, actual

applications and an outlook on future perspectives. Including over 30 comprehensive review chapters, all written by leading international experts, this reference is also a sound introduction to this exciting field. The book is carefully edited by an international team of experts in the field, ensuring complete coverage of the relevant topics and concise representation. Functional polymers and smart polymeric materials play a decisive role for new innovations in all areas where new materials are needed. Optoelectronics, catalysis, biomaterials, medicine, building materials, water treatment, coatings, and many more applications rely on functional polymers. This work is a major reference for researchers, scientists, and practitioners working in any of these fields, or entering this vibrant research area. Key topics of this reference work include: Polymerization methods and polymer synthesis Characterization and properties of new functional polymers and smart materials Functional polymer composites and blends Applications of functional polymers and smart materials: for electro-optics and optoelectronics, in biology and in medical research, as coatings and adhesives, for gas sensing, in functional membranes for separation or proton conduction and many more

Sustainable Practices in the Textile Industry Elsevier

This book covers material challenges and technology innovation in coated and laminated textiles for aerostats and airships. Aerostats/airships are lighter-than-air (LTA) aircraft which are generally used in defence applications and face many harsh environmental conditions. For sustaining such conditions, there are special requirements for the material to be used in aerostats/airships which generally include a multi-layered coated/laminated textile using a textile fabric in base layer and different polymers for coating/lamination. Therefore, this book covers typical materials developed by different countries, challenges for developing material for aerostat/airship envelope and the future scope. Features: Exclusive title on materials used for LTA envelopes. Discusses material challenges such as selection of suitable fibre, polymer, additive, coating/lamination techniques, joint type and sealing techniques. Includes typical materials developed by different companies and researchers worldwide. Clearly explains technical concepts using figures, schemes and tabulated data. Includes case studies on material developed for aerostats/airships by different countries including NASA, Lockheed Martin, JAXA, ADRDE and DRDO. This book is aimed at graduate students, researchers and professionals in textiles engineering and aerospace engineering.

Coated and Laminated Textiles for Aerostats and Airships Springer

The technical developments in the sports clothing industry has resulted in the use of functional textiles for highly-specialised performances in different sports. Developments include thermal and functional properties and coated and laminated clothes. With bio- and smart materials providing such a strong focus in the textile industry generally, companies are going for 'value-added' textiles, such as in-built sensors which monitor performance. In-built wear comfort is a growing market trend and includes clothing which improves the skin's performance. Written by a distinguished editor and a team of authors from the cutting edge of textile research, Textiles in sport discusses high-performance, high-function and intelligent textiles for sportswear. Invaluable for a broad range of readers Discusses high-performance, high-function and intelligent textiles for sportswear

Functional Polymers Woodhead Publishing

Nanotechnology is revolutionising the world of materials. This important book reviews its impact in developing a new generation of textile fibers with enhanced functionality and a wide range of applications. The first part of the book reviews nanofiber production, discussing how different fiber types can be produced using electrospinning techniques. Part two analyses the production and properties of carbon nanotubes and polymer nanocomposites and their applications in such areas as aerospace engineering. The third part of the book considers ways of using nanotechnology to improve polymer properties such as thermal stability and dyeability. The final part of the book reviews the use of nanotechnology to modify textile surfaces, including the use of coatings and films, in order to improve hydrophobic, filtration and other properties. Nanofibers and nanotechnology in textiles is a valuable reference in assessing and using a new generation of textile fibers in applications as diverse as tissue and aerospace engineering. Nanotechnology is revolutionising the world of materials Learn about a new generation of textile fibers that have a wide range of applications Examines how to improve polymer properties

Advances in the Dyeing and Finishing of Technical Textiles Smithers Rapra

The use of distinctive colourants and finishes has a significant impact on the aesthetic appeal and functionality of technical textiles. Advances in the textile chemical industry facilitate production of diverse desirable properties, and are therefore of great interest in the production of textile

products with enhanced performance characteristics. Drawing on key research, Advances in the dyeing and finishing of technical textiles details important advances in this field and outlines their development for a range of applications. Part one reviews advances in dyes and colourants, including chromic materials, optical effect pigments and microencapsulated colourants for technical textile applications. Other types of functional dyes considered include UV- absorbent, anti-microbial and water-repellent dyes. Regulations relating to the use of textile dyes are discussed before part two goes on to investigate such advances in finishing techniques as mechanical finishing, softening treatments and the use of enzymes. Surfactants, Inkjet printing of technical textiles and functional finishes to improve the comfort and protection of apparel are also explored. The use of nanotechnology in producing hydrophobic, super-hydrophobic and antimicrobial finishes is dealt with alongside coating and lamination techniques, before the book concludes with a discussion of speciality polymers for the finishing of technical textiles. With its distinguished editor and international team of expert contributors, Advances in the dyeing and finishing of technical textiles is a comprehensive guide for all those involved in the development, production and application of technical textiles, including textile chemists, colour technologists, colour quality inspectors, product developers and textile finishers. Discusses important advances in the textile chemical industry Considers developments in various dyes and colourants used in the industry, including water repellent, functional and anti-microbial dyes Chapters also examine advances in finishing techniques, the use of nanotechnology and speciality polymers in technical textiles

FRONTIERS OF TEXTILE MATERIALS

Woodhead Publishing

This book describes the progress in flame retardancy of both natural and synthetic fibres/fabrics moving from the traditional approaches (back-coating techniques), current chemical solutions (P-, N-, S-, B- based flame retardants) to the novel up-to-date strategies (deposition and/or assembly of architectures, plasma treatments, sol-gel processes, ...). More specifically, the fundamental aspects, the chemistry of current flame retardant textile technologies including back-coating process and the obtained improvements are thoroughly reviewed, taking into account the detrimental environmental effects due to the use of halogen-based additives such as bromine derivatives. Then, an overview of the chemical development of flame retardant strategies based on halogen-free compounds is summarized. The third part of the book is devoted to a description of the up-to-date innovative solutions, based on nanotechnology. The surface deposition of coatings having a different chemical structure, is highlighted in detail. To this aim, the effect of (nano)architectures derived from (nano)particle adsorption, plasma deposition/grafting, layer by layer assembly, sol-gel treatments on fibres/fabrics is thoroughly discussed.

Advances in the dyeing and finishing of technical textiles CreateSpace

Gore-Tex®, chemical protective clothing, architectural fabrics, air bags...Intensive research and development in coated-fabric materials and processes has led to new and improved products for a wide range of consumer, industrial, medical, and military applications. Coated Textiles: Principles and Applications provides the first comprehensive, up-to-date presentation of this technology and its applications. From coating materials and substrates to coating methods, physical properties, and testing techniques, the author presents detailed examinations of the chemistry, processing, properties, and applications of coated fabrics. He explores the full range of applications, including foul weather clothing, architectural, automotive, and other nonapparel uses, and high-tech applications, such as chemical protective clothing, thermochromic fabrics, camouflage nets, and metal coated fabrics. Worldwide, the production of coated fabrics for defense alone is a multi-billion dollar business, yet the interdisciplinary nature of the field has left the published work scattered throughout the polymer science, textile technology, and chemical engineering literature. Coated Textiles: Principles and Applications offers a unique opportunity to acquire an authoritative, one-stop resource valuable both as a reference and as a stimulus for developing new and improved coated textile products.

Springer

Initially written to pull together scattered literature in polymer science and textile technology, the first edition of Coated Textiles: Principles and Applications became a gold standard resource in this field. Completely revised and updated, this second edition reflects not only the latest developments in the field, but also explores futur

Surface Modification of Textiles BoD - Books on Demand

Coating and Laminating of Textile Fabrics

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