2013 Aatcc Technical Manual | e945b833b1fd6352bca02f275e7bd6c9

2013 Technical Manual of the American Association of Textile Chemists and ColoristsSustainability in Fashion and ApparelAcrylic Fiber Technology and ApplicationsHandbook of Medical TextilesHomecrest Industries Incorporated, Wadena, MinnesotaTextile Analysis, Quality Control & Innovative UsesFunctional Finishes for TextilesChemical Principles of Textile Conservation-line Chemistry and ApplicationsFederal Register/Encyclopedia of Polymer Science and EngineeringChemical Finishing of TextilesResume of Papers Technological ConferenceFabric TestingNonwovensDenimNanofinishing of Textile MaterialsTextile Finishers' HandbookThe Water-Repellent Finisher's Handbook of Technical Textile Textile Dyeing and ColorationFluorinated Surfactants and Repellents, Second Edition,Book of PapersAnalytical Methods for a Textile LaboratoryDyeing for a LivingPerformance and Durability of the Window-wall InterfaceActive Coatings for Smart Textilestextile products present 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 a variety of smart and active coatings, including membrane coatings and durable finishes. Part Two is a detailed examination of coatings for textiles 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 processes for the coating and finishing of textiles Reviews commercial applications of such coatings, including in sportswear, protective clothing, medical textiles and architectureCoating and laminating offer methods of improving and modifying the physical properties and appearance of fabrics and also the development of entirely new products by combining the benefits of fabrics, polymers and films. This detailed book covers all aspects of coating and lamination within the textile industry including - compound ingredients, how to set and adhere to strictly controlled processing conditions, the accurate control of production variables, the safe handling of toxic materials and the ongoing research into future products which will facilitate recycling and disposal. This book is particularly useful in the insight it gives about the challenges and opportunities that these new treatments offer and is essential reading for technologists, chemists and production engineers working in this exciting field. Authoritative review of the latest developments in coating and laminating processes for textiles Focusses on the importance of setting and adhering to processing conditions Written by the author of the well-known Textiles in automotive engineering"Get the latest information available on the performance and durability of the window-wall interface. STP 1484 offers new research, exhaustive testing, and the creation of installation standards which attempt to identify installation methods and construction sequencing, to integrate a variety of fenestration products into a variety of wall claddings. Ten peer-reviewed papers cover: * Integration of windows or doors with their related interfaces–lashings, sealants, claddings, and more * Considerations of weather, exposure, job site conditions * Compatibility or incompatibility of adjacent and integrated materials * Product testing and the testing of installation methods and techniques * Role that permeability plays in the selection of materials * Ability or inability of self-adhered materials to maintain their original adhesion properties, long-term serviceability, and durability. This new publication provides the vital information you need to write specifications, create or interpret standards, evaluate materials for product selection, and recommend changes to the building codes."--Publisher's website. Nonwovens: Process, Structure, Properties and Applications outlines the concept and principle of entirely nonwoven manufacturing process starting from raw material selection, web formation techniques, web bonding methods and finishing. Further, characterization and testing of non-woven fabrics, application of non-woven fabrics in different areas such as apparel, agrotech, geotech, medical and hygiene, automotive textiles, filtration products, home textiles, roofing and construction and packaging were also discussed in detail. The book contains in non-woven manufacturing application and types, with their advantages and limitations were also discussed in brief. This book is primarily a text book intended for textile technology students in universities and colleges, researchers, industrialists and academicians, as well as professionals in the apparel and textile industry.2013 AATCC Technical Manual is a publication of test methods and evaluation procedures developed by the AATCC ResearchA discussion of the synthesis, problems, theories and applications of fluorinated surfactants, this second edition is updated with four new chapters on repellency and protection against soiling and staining and over 2900 references, equations, and drawings (800 more than the previous edition). It lists alphabetically and explores numerous applications of fluorinated surfactants. Called "a most useful introduction to these fascinating materials" by the Journal of Dispersion Science and Technology and "a coherent and stimulating handbookthe most useful book in the fluorinated surfactants field to date. Recommended." by the Journal of the Chemical Society, Faraday Transactions - this book is a source of factual data, methods of manufacture, and chemical structures for the surfactant scientist and user.'Chemical Principles of Textile Conservation' provides must have knowledge for conservators who do not always have a scientific background. This vital book brings together from many sources the material science necessary to understand the properties and principles of the manufacture and utilization of textile artefacts, such as: chemical modification; dyeing and finishing; disinfection; and the use of adhesives and consolidants in conservation of historical textiles. Textile conservators will now have ready access to the necessary knowledge to understand the chemistry of the objects they are asked to treat and to make informed decisions about how to preserve textiles. The combination of a chemist and a conservator provides the perfect authorial team. It ensures a unique dual function of the text which provides textile conservators with vital chemical knowledge and gives scientists an understanding of textile conservation necessary to direct their research. The many practical examples and case studies illustrate the utility of the relatively large chemical introduction and the essential chemical information which is included. The case studies, many illustrated in colour, range from the treatment of the Ghandhi Cloths, high-altitude flying suits, and a Mary Quant raincoat, to the Hungarian Coronation Mantle. The textile industry is becoming an increasingly competitive market. 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 coloration tests and key issues in testing of textile samples. It has distinguished educators, technicians, 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 testingDiscusses the scope, significance and statistical analysis of fabric testingAssesses the importance of fabric testing to both product quality and industry standard complianceNanofinishing of Textile Materials provides thorough coverage of existing, current and future developments in the field. Sections cover a wide range of nanofinishing mechanisms for improving the fundamental properties of textiles, such as durability, flame-retardancy and permeability, as well as water proofing, surface activation and disinfection, including conductivity and magnetism. With two highly regarded and experienced authors bringing together the latest information on nanofinishing technology, this book is essential reading for scientific researchers, engineers, and R&D professionals working on the development of finishes for improving the properties of textiles. Explains nanofinishing mechanisms and processes with a view to their use in developing high-performance apparel and technical textiles Focuses on how nanofinishing can be used to confer important characteristics, such as self-cleaning, hydrophobic, hydrophilic, magnetic and conductive attributes. Explores novel techniques and methods for readers who require cutting-edge knowledge of developments in nanofinishingWith a rising population and the increasing range of textiles for medical use, the need to understand and improve medical textiles gaining in importance. The Handbook of medical textiles provides an overview of the different types of medical textiles currently
available as well as specific information on more specialised topics and applications. In part one, the types and properties of medical textiles are discussed, with chapters covering topics including reusable textiles, textiles for implants and textiles with cosmetic effects. Part two focuses on the interaction of textiles with the skin, examining key issues such as contact sensations, allergies and mechanical irritation. Chapters in part three provide information on the latest developments in textiles for hygiene and infection control, while part four provides a range of applications and case studies, including improvements in medical occupational clothing, medical filters and superabsorbent fibres. With its expert editor and contributions from some of the world’s leading authorities, the Handbook of medical textiles is a standard reference for designers and manufacturers of medical textile products, as well as for biomaterials scientists and medical professionals. Explores the different types of medical textiles currently available as well as specific information on more specialised areas and applications. Chapters cover topics such as reusable textiles, textiles for implants and interaction of textiles with the skin. Is a standard reference for designers and manufacturers of medical textiles, as well as for biomaterials scientists and medical professionals. This book embodies 21 review articles contributed by subject experts of various areas of industrial microbiology. The articles are devoted to pharma industries, food and enzyme industries, textile industry, agro-industry and cottage industry. Yeast is one of the important microorganisms which have been used to produce beverages, alcohols and fermented food commodities for a very long time. In recent years, it has been the first choice among eukaryotes to use in recombinant technology. Yeast and Spirulina are being used and marketed as Single Cell Protein (SCP). Mushrooms have been used by humans down the ages. In addition to a rich source of mycoprotein, they have medicinal values also against many diseases. The growth of bioactive natural compounds is increasing in the microorganisms. Some chapters discuss the use of yeast as biofertilizers because they are rich source of nitrogen and phosphorus for both legumes and non-legumes. They are being manufactured and sold in market with different trade names. In addition, several microbial enzymes have been commercialized by various industries, but highly active and potential enzymes produced through recombinant DNA technology hold much importance. For example, microbial proteases find application in detergent leather, food and pharma industries and provide eco-friendly technology for bioremediation. Laccase has been worked out to be a good tool for bioremediation of non-degradable wastes and xenobiotic chemicals. Besides, laccase-biosensor biosensors have also been constructed which can be used for phenol determination, monitoring of lignin and plant flavonoids. Various microwaves have been used in industry to speed up the growing rate of many fungi. Nowadays this growth is being converted into food demand throughout the world for high quality fish. More than 16,000 bioactive compounds have been isolated from actinomycetes alone including antibiotics, enzymes, vitamins, amino acids, siderophores and nanoparticles. Biosynthesis of nanoparticles by bacteria, actinomycetes and algae has been reported and work is being done nationally and internationally. This major handbook provides comprehensive coverage of the manufacture, processing and applications of high tech textiles for a huge range of applications including: heat and flame protection, waterproof and breathable fabrics; textiles in filtration, geotextiles; medical textiles; textiles in transport engineering and textiles for extreme environments. Handbook of technical textiles is an essential guide for textile yarn and fibre manufacturers; producers of woven, knitted and non-woven fabrics; textile finishers; designers and specifiers of textiles for new or novel applications as well as lecturers and graduate students on university textile courses. Comprehensive handbook for all aspects of technical textiles Detailed coverage of processes, fabric structure and applications Contributions from recognised experts world-wide if you are serious about textiles and the built environment, this Third Edition is the one source to survey every aspect of textiles for residential and commercial interiors, from fiber to manufacturer, from its application to upholstered furniture, windows, walls and floor covering. The role of the textile finisher has become increasingly demanding, and now requires a careful balance between the compatibility of dyes, 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, uses and applications of different compounds, an overview of finishing techniques, and discussion of future trends. Discusses the advantages and disadvantages of every important type of chemical finish Combinable technical understanding and practical experience concisely Essential tool to assist in the demanding challenge of chemical finishing for textiles. This work examines the science and technology used in the manufacture of acrylic fibre for both mass-produced commodity products and premium products. It elucidates the chemistry and fibre production techniques of specialty acrylics such as flame-retardant, water-reversible bicomponent, producer dyed and others. Capacity figures for developing country This volume provides an overview of the theory and practical aspects of the detergent process, detergency testing, analysis of detergency results and fundamental aspects of detergent formulations. It did provide all the information required for formulations for detergents and洗衣粉 for the most important fabric finishes in the textile industry. It discusses finishes designed to improve the comfort and other properties of fabrics, as well as finishes which protect the fabric or the wearer. Each chapter reviews the role of a finish, the mechanisms and chemistry behind the finish, types of finish and their methods of application, application to particular textiles, testing and future trends. Describes finishes to improve comfort, performance, and protection of fabric or the wearer. Examines the mechanisms and chemistry behind different types of finishes and their methods of application, testing and future trends. Comprehensive and up-to-date, this is the essential guide for anyone working in the textile industry or who has an interest in the environmental impact of the textile industry. This book addresses the pathway to reach sustainability in fashion business and apparel sectors. This book contains various research papers originally contributed by different authors from various organizations who are all working towards the eco-friendly manufacturing of apparel products. This textbook provides approaches, techniques, alternative procedures/sustainable routes to develop sustainable apparel in a more environmentally friendly manner for the future. The research papers discussed in this book mainly focus on the various challenges put forth by the apparel industry with respect to environmentally friendly production. This book also provides the reader and designer with several concepts that are really useful for academicians, industry personnel and to textile and apparel students and scholars who wish to explore their knowledge and innovations in the field of sustainable apparel product manufacturing and processes. Teaching aid and activity book. Workshops and training program. Nanotechnology in Dermatology is the first book of its kind to address all of the important and rapidly growing aspects of nanotechnology as it relates to dermatology. In the last few years there has been an explosion in research and development for products and devices related to nanotechnology, including numerous applications for consumers, patients, and industry. Applications are underway in medicine and dermatology for the early detection, diagnosis, and targeted therapy of disease, and nanodesigned materials and devices. Nanotechnology offers faster, smaller, smarter and more powerful, in drug delivery, cancer therapies and wound healing. Nanotechnology specifically addresses nanotechnology in consumer skin care products, in the diagnosis of skin disease, in the treatment of skin disease, and the overall safety of nanotechnology. The book also discusses future trends of this ever-growing and changing field, providing dermatologists, pharmacological companies, and consumer cosmetics companies with a clear understanding of the advantages and challenges of nanotechnology today. Devoted entirely to textiles for interiors, Textiles for Residential and Commercial Interiors, 4th Edition, focuses on the most current fiber and fabric information including new fiber technology and nanofibers, the role of the interior designer in selecting textiles, and the environmental impact of textiles. The book includes in-depth coverage of household and institutional textiles, in addition
to commercial and residential textiles for upholstered furniture, windows, walls, and floor coverings. Full-color line drawings and photographs illustrate fibers, yarns, fabrics, manufacturing equipment, coloring, finishings, and end products. Textiles for Residential and Commercial Interiors provides students with all of the technical information, aesthetic fundamentals, and practical knowledge they need to select textiles for every type of residential and commercial interior. Discusses the components of textile finishes, and the chemical and physical properties of, as well as their effects on, various fibers. The book covers fundamentals of fibre finish science, such as theories of friction; laboratory testing of formulations, from preliminary component evaluation to analyses for material characterization; and the influence of wetting, emulsification and finish distribution on coatings.

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