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Yimin Qin



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Holly Morris, Richard Murray



Medical Materials Woodhead Publishing Textiles:

Medical Textiles Holly Morris, Richard Murray, 2021-12-21 This textbook aims to ensure that advances in medical textiles are addressed and that recent developments are able to be appreciated and understood not only by medical practitioners and healthcare personnel but also by textile scientists and technologists The idea is to stimulate collaborative research and development in the field of medical textiles and to equip researchers with an understanding of the steps they need to take to ensure that their efforts be they to develop new devices for implantation or items for external application are carried out in such a way as to improve their effectiveness and enhance the prospects for their implementation Attention is drawn to the need to improve outcomes in the practical setting and to guidance on the detailed planning required prior to engaging in experimental work Standard tests can help researchers to monitor performance but for some important applications such as those required to demonstrate antimicrobial and fluid repellent performance in most items of protective wear standard tests consistently fall seriously short in terms of predicting how well they might work in the practical setting Guidance is therefore given for their further development Chapters within the textbook cover The history of innovation within medical textiles with particular attention given to key concepts of the latter part of the 19th Century and subsequent associated developments Textile and polymer science underpinning fibres fabrics nano fibre technology and the functional finishes that can be applied to enhance the performance of medical textile products Woven knitted nonwoven and braided fabrics and the key performance characteristics of each fabric type which make them particularly suited to specific medical textile roles such as mesh grafts filtration and scaffolds for tissue engineering Implantable medical textiles non implantable medical textiles health and hygiene products and extracorporeal devices that use textile products Legislative requirements for medical devices The design of experiments and suitability for purpose of textile test methods Case studies to illustrate how medical textiles are applied in practice The book provides essential reading for textile professionals biomedical engineers and others involved in the research design and engineering of medical and healthcare appliances and for those employed in the medical profession wishing to gain new insights into the wealth of materials at their disposal **Textile**

Materials for Good Health and Wellbeing Subramanian Sundaramoorthy, S. Kubera Sampath Kumar, Md. Vaseem Chavhan, 2024-10-07 This book explores the application of latest technologies such as nanotechnology composite technology biotechnology in textile materials for health related applications It further discusses different types of textiles and their application in the areas of health safety and well being Various topics covered in this book are medical textiles filtration textiles protective textiles thermal protective wear intelligent textiles and many more The book also deals with air and water filtration textiles and textile based personal protective equipments This book will be of interest for students researchers and professionals working in the area of textile engineering materials biomedical engineering defense healthcare and other allied fields **High Performance Technical Textiles** Roshan Paul, 2019-02-19 An authentic resource for the fundamentals

applied techniques applications and recent advancements of all the main areas of technical textiles Created to be a comprehensive reference High Performance Technical Textiles includes the review of a wide range of technical textiles from household to space textiles The contributors noted experts in the field from all the continents offer in depth coverage on the fibre materials manufacturing processes and techniques applications current developments sustainability and future trends The contributors include discussions on synthetic versus natural fibres various textile manufacturing techniques textile composites and finishing approaches that are involved in the manufacturing of textiles for a specific high performance application Whilst the book provides the basic knowledge required for an understanding of technical textiles it can serve as a springboard for inspiring new inventions in hi tech fibres and textiles This important book Contains a unique approach that offers a comprehensive understanding of the manufacturing and applications of technical textiles Includes a general overview to the fundamentals current techniques end use applications as well as the most recent advancements Explores the current standards in the industry and the ongoing research in the field Offers a comprehensive and single source reference on the topic Written for academics researchers and professionals working in textile and related industries High Performance Technical Textiles offers a systematic structured logical and updated source of information for understanding technical textiles

Nanomaterials Jasvir Dalal, Anju Gupta, Smita Korpai, Vikas Narayan Thakur, 2024-12-20 This book explores the revolutionary impact of nanomaterials in energy storage medicine environmental remediation and materials science It highlights the potential of diverse materials from sodium ion battery cathodes to plant derived silver nanoparticles for water remediation The book also examines nanotechnology's role in enhancing animal nutrition advancing mesoporous silica nanoparticles for drug delivery and integrating industrial waste like fly ash into polyurethane for sustainability The study of metal oxide nanowires for optoelectronics further illustrates nanomaterials transformative power Through innovative synthesis and characterization the book presents nanotechnology as a key driver of sustainable development offering valuable insights for researchers professionals and students in materials science environmental sciences and nanotechnology

Smart Textiles for Medicine and Healthcare Textile Institute (Manchester, England), 2007-03-09 This text combines medical smart textiles by looking at how smart or intelligent textiles are being used in healthcare It assesses trends in smart medical textiles their diverse uses in areas such as woundcare drug release systems It also reviews their role in monitoring the health of particular groups such as the elderly

Medical Textiles, 1996 International Conference Subhash Anand, 1997-04-22 Medical Textiles Subhash C. Anand, 2001-02-28 Medical textiles is one of the major growth areas within technical textiles and the use of textile materials for medical and healthcare products ranges from simple gauze or bandage materials to scaffolds for tissue culturing and a large variety of prostheses for permanent body implants Recent advances include The development of polylactic acid and polyglycolic acid fibres as structures for cell growth Temporary bioresorbable textile supports for growing human organic tissue The development of smart fibres based on naturally

occurring polymers and also on non animal based protein fibres and structures for the treatment of wounds and ulcers These are a few examples of the wide range of textile based non implantable and implantable products used in medicine and surgery and covered in this cutting edge collection of the latest research in this fascinating area

Smart Textiles for Medicine and Healthcare Lieva Van Langenhove, 2007-02-21 Smart or intelligent textiles are a relatively novel area of research within the textile industry with enormous potential within the healthcare industry This book provides a unique insight into recent developments in how smart textiles are being used in the medical field The first part of the book assesses trends in smart medical textiles Chapters cover topics such as wound care materials drug based release systems and electronic sensors for health care The second part of the book discusses the role of smart textile in monitoring the health of particular groups such as pregnant women children the elderly and those with particular physical disabilities With its distinguished editor and team of international contributors this book provides a unique and essential reference to those concerned with intelligent textiles in healthcare Unlocks the significant potential of smart textiles within the healthcare industry Provides a unique insight into recent developments in this exciting field

Medical and Healthcare Textiles Subhash C. Anand, J F Kennedy, M Miraftab, S. Rajendran, 2010-07-15 Medical textiles remain one of the most dynamic areas of research in textiles Medical and healthcare textiles is the fourth in a series of conferences held at the University of Bolton Like its predecessors it has attracted papers from some of the leading international centres of expertise in the field Contributors cover a range of topics including emerging textile based biomaterials hygienic textiles the use of textiles in infection control and as barrier materials bandaging and pressure garments for managing chronic infections such as ulcers the role of textiles in the management of burns and wounds textile based implantable devices such as tissue scaffolds and sutures and intelligent textiles Provides a comprehensive overview of medical textiles from the risk of infection control and barrier materials through to directives regulations and standards shaping the medical device industry Explores developments in healthcare and hygiene products including odor and pH control as well as protective and disposable fabrics Reviews development in the area of implantable materials featuring vascular grafts knee implants and scaffolds

Indian Journal of Fibre & Textile Research, 2006 **Medical Textiles and Biomaterials for Healthcare** Subhash C. Anand, J F Kennedy, M Miraftab, S. Rajendran, 2005-11-30 Medical textiles are a major growth area within the technical textiles industry and the range of applications continues to grow and increase in diversity with every new development Recent innovations include novel chitosan alginate fibres for advanced wound dressings ultrasonic energy for bleaching cotton medical textiles durable and rechargeable biocidal textiles spider silk supportive matrix for cartilage regeneration barbed bi directional surgical sutures and intelligent textiles for medical applications Medical textiles and biomaterials for healthcare is a culmination of the worldwide research into medical textiles and biomaterials It is divided into eight parts covering the main areas of basic biomaterials healthcare and hygiene products infection control and barrier materials bandaging and pressure

garments woundcare materials implantable and medical devices and smart technologies Each part contains a comprehensive overview written by leading experts in the area The overviews are then followed by a selection of the best papers from the 2003 MEDTEX Conference hosted by the University of Bolton It has been extensively edited to produce what is expected to be the leading reference on this subject Discusses worldwide research into medical textiles and biomaterials Invaluable reference for this developing area of technical textiles A selection of the best papers from the 2003 MEDTEX Conference hosted by University of Bolton are included **The Indian Textile Journal** Sorabji M. Rutnagur,2011 *A.T.A. Journal* ,2005 **Journal of the Textile Institute** ,2003 **Advanced Manufacturing Technology, ICMSE 2012** Wen Zhe Chen,Xi Peng Xu,Pin Qiang Dai,Yong Lu Chen,Zheng Yi Jiang,2012-02-27 Selected peer reviewed papers from the 3rd international Conference on Manufacturing Science and Engineering ICMSE 2012 March 27 29 2012 Xiamen China *Textiles Magazine* ,2001 *Textile Technology Digest* ,2002 Handbook of Research on Developments in E-health and Telemedicine Maria Manuela Cruz-Cunha,2010 This book provide a comprehensive coverage of the latest and most relevant knowledge developments solutions and practical applications related to e Health this new field of knowledge able to transform the way we live and deliver services both from the technological and social perspectives Provided by publisher *Advanced Measurement and Test* Riza Esa,Yan Wen Wu,2011-07-27 Selected peer reviewed paper from 2011 2nd International Conference on Advanced Measurement and Test AMT 2011 on June 24 26 2011 Nanchang China Industrial Fabric Products Review ,2004

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