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Medical Textile Materials

Yimin Qin



Medical Materials Woodhead Publishing Textiles

Yimin Qin

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.

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.

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

Biomedical Textiles Mohd Yusuf,Shumaila Kiran,2025-08-06 For millennia textiles have been an integral part of human civilization evolving from basic clothing to advanced applications catering to modern societal needs The intersection of textiles and medical science has given rise to biomedical textiles which are defined as fibrous textile structures prepared from synthetic or natural materials that are used internally or externally in a biological environment inside or outside the body as a medical or care device to improve health hygiene and medical conditions The book discusses the need for flexibility and shape transformation capabilities in today's textiles such as being engineered for insertion through a small catheter or expanded within the vessels to allow minimally invasive delivery methods without sacrificing mechanical integrity and healthcare capabilities It presents the recent research and developments that will benefit academicians scientists researchers and post graduate students in the field of textile science and technology The book will prove to be a useful instrument in the rapid and efficient entry of new researchers into the emerging field of textile engineering and technology

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

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

High Performance Technical Textiles Roshan Paul,2019-04-29 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

Fibers for Technical Textiles Sheraz Ahmad,Abher Rasheed,Yasir Nawab,2020-08-21 This book discusses the properties of fibres used in manufacturing technical textiles highlighting the importance of material selection in terms of cost end user requirements and properties It also discusses the classification of technical textiles and describes the details of each category such as the properties applications advantages and drawbacks As such it is a valuable resource for all those interested in advanced textiles

Nanomaterials Jasvir Dalal,Anju Gupta,Smita Korpal,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. **Medical Textiles, 1996 International Conference** Subhash Anand, 1997-04-22

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. *Handbook of Medical Textiles* V Bartels, 2011-08-19 With a rising population and the increasing range of textiles for medical products the need to understand and improve medical textiles is 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 textile products as well as for biomaterials scientists and medical professionals. **Medical Textile Materials** Yimin Qin, 2015-11-21 Medical Textile Materials provides the latest information on technical textiles and how they have found a wide range of medical applications from wound dressings and sutures to implants and tissue scaffolds. This book offers a systematic review of the manufacture properties and applications of these technical textiles. After a brief introduction to the human body the book gives an overview of medical textile products and the processes used to manufacture them. Subsequent chapters cover superabsorbent textiles functional wound dressings.

bandages sutures implants and other important medical textile technologies Biocompatibility testing and regulatory control are then addressed and the book finishes with a review of research and development strategy for medical textile products Provides systematic and comprehensive coverage of the manufacture properties and applications of medical textile materials Covers recent developments in medical textiles including antimicrobial dressings drug releasing materials and superabsorbent textiles Written by a highly knowledgeable author with extensive experience in industry and academia

Indian Journal of Fibre & Textile Research ,2006 Journal of the Textile Institute ,2003 **Medical Textiles from Natural Resources** Md. Ibrahim H. Mondal,2022-06-15 Medical Textiles from Natural Resources provides systematic and comprehensive coverage of the fundamentals production methods processing techniques characterization techniques properties and applications of medical textile materials from natural resources Medical textiles offer a variety of technical and functional properties valued in medical and healthcare sectors often relating to hygiene As medical textile products remain in close contact with the human body the fibre must have characteristics such as biological compatibility biological degradability permeability and nontoxicity Only materials from natural renewable sources have such characteristics This book provides the latest information on a wide range of medical applications from single suture and wound dressings to implants and tissue scaffolds It also offers a systematic review of the manufacture properties and applications of technical textiles for medical use Explains the latest technologies related to fibre extraction from natural sources chemical treatments weave constructions fabric finishes and coatings Describes innovative applications of nanomaterials in the treatment of textile fabric and the utilization of carbohydrate polymers in the preparation of nanoparticles deposited in nonwoven fabrics Helps product designers to find appropriate materials from natural resources with the characteristics of biodegradability renewability biocompatibility and nontoxicity **The Indian Textile Journal** Sorabji M. Rutnagur,2011 Biotextiles as medical implants B.S. Gupta,2013-10-31 The chapter describes procedures and materials used and results obtained from several important studies of the mechanical performance of surgical sutures and the clinical factors that influence their behavior Key features of successful suture assembly are the material used structure of the thread surface treatment knot strength and security the in vivo environment and compatibility of the tensile properties of the thread with those of the tissues approximated during and after surgery To improve suture success in terms particularly of knot performance coupling of thermal and chemical energies in conjunction with mechanical interlacing have been experimented with **A.T.A.**

Journal ,2005 **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

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