

Microscopy Of Textile Fibres Royal Microscopical Society

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Joseph Merritt Matthews J. Gordon Cook Maureen Sawbridge J. Gordon Cook A. R. Bunsell
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a comprehensive survey of the natural fibres animal vegetable and mineral on
which we depended for our textiles until comparatively recently

textiles are ubiquitous materials that many of us take for granted in our everyday
lives we rely on our clothes to protect us from the environment and use them to

enhance our appearance textiles also find applications in transport healthcare construction and many other industries the revised and updated 2nd edition of the chemistry of textile fibres highlights the trend towards the synthesis from renewable resources of monomers for making synthetic fibres it contains new information on the influence of legislation and the concerns of environmental organisations on the use of chemicals in the textile industry new sections on genetically modified cotton anti microbial materials and spider silk have been added as well as a new chapter covering functional fibres and fabrics this book provides a comprehensive overview of the various types of textile fibres that are available today ranging from natural fibres to the high performance fibres that are very technologically advanced readers will gain an appreciation of why particular types of fibre are used for certain applications through understanding the chemistry behind their properties students following a level courses or equivalent and first year undergraduate students reading textile technology subjects at university will find this book a valuable source of information

ever wondered why a particular type of fibre is used for a certain application readers of this book will gain an appreciation of the answer to this question and more through understanding the chemistry behind the properties of the fibres providing a comprehensive overview of the various types of textile fibres that are available today ranging from natural fibres to high performance fibres that are very technologically advanced the book is a revised and updated new edition of a highly successful text textiles are ubiquitous materials that many of us take for granted in our everyday lives we rely on our clothes to protect us from the environment and use them to enhance our appearance textiles also find applications in transport healthcare construction and many other industries the third edition of the chemistry of textile fibres updates a significant amount of the information provided in the previous editions such as the synthesis from renewable resources of monomers for producing synthetic fibres emerging applications of nanofibres production of electrically conducting fibres incorporating graphene and carbon nanotubes and nano finishing of textiles it also gives greater emphasis to those aspects of textile chemistry that combat adverse environmental impact including the chemical decomposition of synthetic polymers and strategies to reduce the damaging impact of microfibers it introduces the production of micro and nanomaterials from cellulose as an alternative to relatively toxic and non ecofriendly micro and nanomaterials produced from other sources together with the bio functionalisation of textiles students following a level courses or equivalent and first year undergraduate students reading textile technology subjects at university will find this book a valuable source of information

due to their complexity and diversity understanding the structure of textile fibres is of key importance this authoritative two volume collection provides a comprehensive review of the structure of an extensive range of textile fibres volume 1 begins with an introductory set of chapters on fibre structure and methods to characterise fibres the second part of the book covers the structure of manufactured polymer fibres such as polyester polyamides polyolefin elastomeric and aramid fibres as well as high modulus high tenacity polymer fibres chapters discuss fibre formation during processing and how this affects fibre structure and mechanical properties a companion volume reviews natural regenerated inorganic and specialist fibres edited by leading authorities on the subject and with a team of international authors the two volumes of the handbook of textile fibre structure is an essential reference for textile technologists fibre scientists textile engineers and those in academia the first title of a authoritative two volume collection that provides a comprehensive review of the structure of a range of textile fibres provides an overview of the development of fibre structure and methods to characterise fibres examines the structure of both traditional and new fibres and natural and manufactured fibres

introduction to textile fibres provides necessary information for beginners in many textile institutions this book was widely referred by students and staff for teaching diploma and degree courses in 1989 the book won the coveted best technical book in textile century mills award through textile association india this revised edition of the book offers new topics and updated statistical figures

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and carbon as well as specialist fibres such as chemically resistant and optical fibres

this book offers a comprehensive survey of the man made fibres including rayons and other natural polymer fibres and the true synthetic fibres which have made such rapid progress in modern times

the identification of fibers is important to the textile industry forensic science fashion designers and historians among others identifying fibers involves observing the physical and chemical properties of the fiber for which there are a wide diversity of instruments available this book provides a comprehensive review of fiber structure the diversity of instruments available to identify fibers and applications for a range of industries the first part of the book examines the main fibers their structure and characteristics part two focuses on methods of fiber identification ranging from microscopic to dna analysis specific applications including how textiles are identified in forensic investigations identification of textile fibers is an important text for forensic scientists police and lawyers who may be involved with the use of textile fibers to provide evidence in criminal cases it will also be relevant for textile designers technologists and inspectors wishing to assess fiber quality and understand fiber damage provides a comprehensive review of the main types of fibre together with their structure characteristics and identification assesses methods of fibre identification from optical microscopy to dna analysis as well as instruments available to identify fibres

coedited by one of the world s leading authorities in the field and the late w e morton this classic book explores key aspects of fiber performance cementing its reputation as an invaluable reference this fourth edition has been substantially reorganized and revised to reflect new research directions after introductory chapters on fiber structure testing and sampling the book reviews key fiber properties their technical significance factors affecting these properties and measurement issues it examines fineness length density thermal properties and reaction to moisture the book also considers tensile properties thermomechanical responses and fiber breakage and fatigue it concludes with discussions on dielectric properties electrical resistance and static optical properties and fiber friction each chapter covers both natural and synthetic fibers including high performance fibers

textiles are ubiquitous materials that many of us take for granted in our everyday lives we rely on our clothes to protect us from the environment and use them to enhance our appearance textiles also find applications in transport healthcare construction and many other industries the revised and updated 2nd edition of the chemistry of textile fibres highlights the trend towards the synthesis from

renewable resources of monomers for making synthetic fibres it contains new information on the influence of legislation and the concerns of environmental organisations on the use of chemicals in the textile industry new sections on genetically modified cotton anti microbial materials and spider silk have been added as well as a new chapter covering functional fibres and fabrics this book provides a comprehensive overview of the various types of textile fibres that are available today ranging from natural fibres to the high performance fibres that are very technologically advanced readers will gain an appreciation of why particular types of fibre are used for certain applications through understanding the chemistry behind their properties students following a level courses or equivalent and first year undergraduate students reading textile technology subjects at university will find this book a valuable source of information

ever wondered why a particular type of fibre is used for a certain application readers of this book will gain an appreciation of the answer to this question and more through understanding the chemistry behind the properties of the fibres providing a comprehensive overview of the various types of textile fibres that are available today ranging from natural fibres to high performance fibres that are very technologically advanced the book is a revised and updated new edition of a highly successful text textiles are ubiquitous materials that many of us take for granted in our everyday lives we rely on our clothes to protect us from the environment and use them to enhance our appearance textiles also find applications in transport healthcare construction and many other industries the third edition of the chemistry of textile fibres updates a significant amount of the information provided in the previous editions such as the synthesis from renewable resources of monomers for producing synthetic fibres emerging applications of nanofibres production of electrically conducting fibres incorporating graphene and carbon nanotubes and nano finishing of textiles it also gives greater emphasis to those aspects of textile chemistry that combat adverse environmental impact including the chemical decomposition of synthetic polymers and strategies to reduce the damaging impact of microfibers it introduces the production of micro and nanomaterials from cellulose as an alternative to relatively toxic and non ecofriendly micro and nanomaterials produced from other sources together with the bio functionalisation of textiles students following a level courses or equivalent and first year undergraduate students reading textile technology subjects at university will find this book a valuable source of information

fibres usually experience tensile loads whether they are used for apparel or technical structures their form which is long and fine makes them some of the

strongest materials available as well as very flexible this book provides a concise and authoritative overview of tensile behaviour of a wide range of both natural and synthetic fibres used both in textiles and high performance materials after preliminary chapters that introduce the reader to tensile properties failure and testing of fibres the book is split into two parts part one examines tensile properties and failure of natural fibres such as cotton hemp wool and silk part two discusses the tensile properties and failure of synthetic fibres ranging from polyamide polyester and polyethylene fibres to carbon fibres many chapters also provide a general background to the fibre including the manufacture microstructure factors that affect tensile properties as well as methods to improve tensile failure with its distinguished editor and array of international contributors handbook of tensile properties of textile and technical fibres is an important reference for fibre scientists textile technologists and engineers as well as those in academia

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