

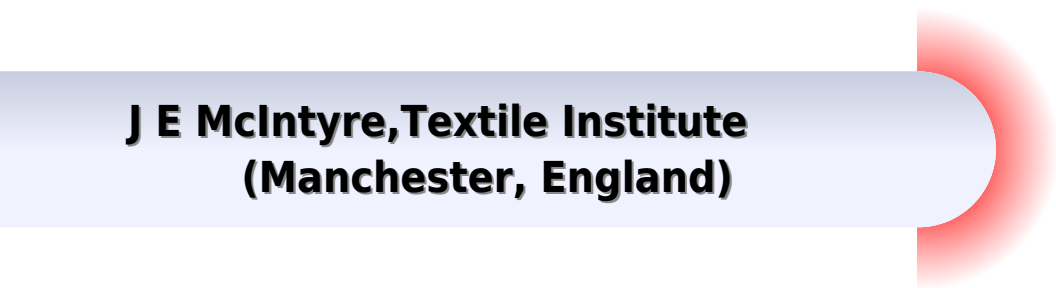
Advanced fiber spinning technology

Edited by **Professor T Nakajima**
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Advanced Fiber Spinning Technology Advanced Fiber Spinning Technology

**J E McIntyre, Textile Institute
(Manchester, England)**



Advanced Fiber Spinning Technology Advanced Fiber Spinning Technology:

Advanced Fiber Spinning Technology T. Nakajima,1994-01-01 Translated from Japanese this book details some of the most interesting developments of the last few decades in the field of fibre manufacture Many of these have been the result of intensive study in industry and research institutes in Japan the country at the forefront of research in fibre spinning technology Fibre Materials for Advanced Technical Textiles T. Matsuo,2019-04-26 This paper tries to give an overview on technologies using fibrous materials for contributing to environmental and resource matters The technologies for water treatment include bio reactive treatment system using membrane hollow fibre desalination using Ro hollow fibre purification of water work using UF or MF hollow fibre purification of recyc Fibrous Materials Krishan Chawla,2016-06-02 This new updated edition provides an unrivaled overview of fibrous materials their processing microstructure properties and applications The entire range of fibrous materials is discussed in depth from natural polymeric fibers such as silk and vegetable fibers and synthetic polymeric fibers such as aramid and polyethylene to metallic fibers including steel tungsten Nb Ti and Nb₃Sn ceramic fibers such as alumina and silicon carbide and carbon and glass fibers Fundamental concepts are explained clearly and concisely along with detail on applications in areas including medicine aerospace optical communications and recycling Significant recent advances are also covered with new information on the electrospinning of fibers carbon nanotubes and photonic bandgap fibers and detail on advances made in the production and control of microstructure in high stiffness and high strength fibers Accessibly written and unrivaled in scope this is an ideal resource for students and researchers in materials science physics chemistry and engineering *Synthetic Fibres* J E McIntyre,Textile Institute (Manchester, England),2005 Publisher description This book examines fibers generated entirely from chemicals Authors consider nylon polyester acrylic and polyolefin fiber which have a wide range of applications including clothing soft furnishing flooring and geo textiles In addition to covering physical chemical and structural properties world markets and future trends *Synthetic Fibres* discusses chemical intermediates fiber spinning and orientation technology additives polymerization dyeing texturing and other production techniques This comprehensive and accessible book is ideal for industrial and academic textile technologists chemical and synthetic fiber suppliers and yarn and fabric manufacturers

Hollow Fiber Technology for Advanced Waste Treatment J. D. Bashaw,J. Keith Lawson,T. A. Orofino,1972

Woven Fabrics Han-Yong Jeon,2012-05-16 Woven Fabrics is a unique book which covers topics from traditional to advanced fabrics widely used in IT NT BT ET ST industry fields In general woven fabrics are known as the traditional textile fabrics for apparel manufacturing and are used widely in various fabric compositions as intermediate goods that affect human activities The relative importance of woven fabrics as traditional textile materials is extremely large and currently application fields of woven fabrics as technical textiles are rapidly expanded by utilizing its geometric features and advantages For example the book covers analytical approaches to fabric design micro and nano technology needed to make

woven fabrics as well as the concept for industrial application *Physico-chemical Aspects of Textile Coloration* Stephen M. Burkinshaw, 2016-02-08 The production of textile materials comprises a very large and complex global industry that utilises a diverse range of fibre types and creates a variety of textile products As the great majority of such products are coloured predominantly using aqueous dyeing processes the coloration of textiles is a large scale global business in which complex procedures are used to apply different types of dye to the various types of textile material The development of such dyeing processes is the result of substantial research activity undertaken over many decades into the physico chemical aspects of dye adsorption and the establishment of dyeing theory which seeks to describe the mechanism by which dyes interact with textile fibres Physico Chemical Aspects of Textile Coloration provides a comprehensive treatment of the physical chemistry involved in the dyeing of the major types of natural man made and synthetic fibres with the principal types of dye The book covers fundamental aspects of the physical and chemical structure of both fibres and dyes together with the structure and properties of water in relation to dyeing dyeing as an area of study as well as the terminology employed in dyeing technology and science contemporary views of intermolecular forces and the nature of the interactions that can occur between dyes and fibres at a molecular level fundamental principles involved in dyeing theory as represented by the thermodynamics and kinetics of dye sorption detailed accounts of the mechanism of dyeing that applies to cotton and other cellulosic fibres polyester polyamide wool polyacrylonitrile and silk fibres non aqueous dyeing as represented by the use of air organic solvents and supercritical CO₂ fluid as alternatives to water as application medium The up to date text is supported by a large number of tables figures and illustrations as well as footnotes and widespread use of references to published work The book is essential reading for students teachers researchers and professionals involved in textile coloration *Advanced Nanofibrous Materials Manufacture Technology based on Electrospinning* Yanbo Liu, Ce Wang, 2019-04-23 This book comprehensively addresses advanced nanofiber manufacturing based on electrospinning technology The principles relationships between process parameters and structure morphology and performance of electrospun nanofibers and nanomaterials and the methods for enhanced field intensity and uniform distribution are discussed The electric field intensity and distribution during electrospinning is also analyzed based on finite element analysis on both the needle and the needleless electrospinning Furthermore the modification techniques for improved nanomaterials strength are covered aiming to provide effective avenues towards the manufacture of stronger nanofiber or nanomaterial products *Advanced Optical and Optoelectronic Fibers* Lei Wei, 2024-08-31 This book highlights the recent scientific and technological innovations of various optical and optoelectronic fibers based on different functional structures and materials Advanced optical and optoelectronic fibers locate at the intersection of many disciplines ranging from optical waveguides optoelectronics material engineering micro nanofabrication and neural interfaces to wearable devices The book covers the major developments on fiber materials such as semiconductors metals polymers and soft glasses as well as novel in fiber structures Different

functionalities are also summarized including sensing light guidance lasing and material engineering toward full system integration The book is a valuable resource for researchers engineers and graduate students engaged in the study of optical and optoelectronic fibers **Assessment of Key Issues in the Coloration of Polyester Material** Renzo

Shamey,2019-10-16 This book addresses the problems in the dyeing of polyester textile materials in various forms and provides an overview of various textile operations for polyester It presents various key steps and critical factors involved in the production of dyed polyester textile materials

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