

# MANUFACTURED FIBRE TECHNOLOGY

EDITED BY  
V.D. Gupta and V.K. Rathore



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# Manufactured Fibre Technology

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## **Manufactured Fibre Technology:**

*Manufactured Fibre Technology* V.B. Gupta, V.K. Kothari, 1997-10-31 Manufactured Fibre Technology provides an accessible and comprehensive treatment of the chemical physical and mechanical processes involved in the production of all important commodity manufactured fibres and most of the industrial fibres The emphasis is on the fundamental principles and industrial aspects of production Latest developments in manufactured fibres in terms of manufacturing processes characteristics and their applications are also covered Manufactured Fibre Technology is designed around twenty chapters with a balance of basic principles and production of specific fibre types Newer and industrially relevant areas such as high speed spinning production of speciality fibres including microfibres computer simulation of spinning high performance fibres spun bonding and melt blowing and re use of fibre waste are included The structure property and application areas of each fibre type are also discussed thus providing a broad understanding of the subject In addition various aspects related to the testing and characterisation of fibres and polymers are reviewed This book is an invaluable resource to students lecturers industrial technologists and researchers in this subject area

**Manufactured Fiber Technology** V. B. Gupta, 1992

*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

**Poly(lactic acid)** Rafael A. Auras, Loong-Tak Lim, Susan E. M. Selke, Hideto Tsuji, 2022-06-01 POLY LACTIC ACID The second edition of a key reference fully updated to reflect new research and applications Poly lactic acid s PLAs biodegradable polymers derived from lactic acid have become vital components of a sustainable society Eco friendly PLA polymers are used in numerous industrial applications ranging from packaging to medical implants and to wastewater treatment The global PLA market is predicted to expand significantly over the next decade due to increasing demand for compostable and recyclable materials produced from renewable resources Poly lactic acid Synthesis Structures Properties Processing Applications and End of Life provides comprehensive coverage of the basic chemistry production and industrial use of PLA Contributions from an international panel of experts review specific processing methods characterization techniques and various applications in medicine textiles packaging and environmental engineering Now in its second edition this fully up to date volume features new and revised chapters on 3D printing the mechanical and chemical recycling of PLA PLA stereocomplex crystals PLA composites the environmental footprint of PLA and more Highlights the biodegradability recycling and sustainability benefits of PLA Describes processing and conversion technologies for PLA such as injection

molding extrusion blending and thermoforming Covers various aspects of lactic acid lactide monomers including physicochemical properties and production Examines different condensation reactions and modification strategies for enhanced polymerization of PLA Discusses the thermal rheological and mechanical properties of PLA Addresses degradation and environmental issues of PLA including photodegradation radiolysis hydrolytic degradation biodegradation and life cycle assessment Poly lactic acid Synthesis Structures Properties Processing Applications and End of Life Second Edition remains essential reading for polymer engineers materials scientists polymer chemists chemical engineers industry professionals using PLA and scientists and advanced student engineers interested in biodegradable plastics *Structure and Properties of High-Performance Fibers* Gajanan Bhat,2016-08-21 *Structure and Properties of High Performance Fibers* explores the relationship between the structure and properties of a wide range of high performance fibers Part I covers high performance inorganic fibers including glasses and ceramics plus carbon fibers of various types In Part II high performance synthetic polymer fibers are discussed while Part III reviews those natural fibers that can be used to create advanced textiles The high performance properties of these fibers are related to their chemistry and morphology as well as the ways in which they are synthesized and spun High performance fibers form the basis of textile materials with applications in protection medicine and composite reinforcement Fibers are selected for these technical applications due to their advanced physical mechanical and chemical properties Offers up to date coverage of new and advanced materials for the fiber and textile industries Reviews structure property relationships of high performance inorganic carbon synthetic polymer and natural fibers Includes contributions from an international team of authors edited by an expert in the field Reviews those natural fibers that can be used to create advanced textiles **Textile Technology Digest** ,2001 **World Directory of Manufactured Fiber Producers** ,2005 *Non-woven Fabrics* Han-Yong Jeon,2016-03-24 *Non woven Fabrics* is differentiated text which covers overall stream from raw fibers to final products and includes features of manufacturing and finish process with specialized application end use Application range of non woven fabrics is extended to all the industrial fields needless to say apparel such as ICT information and communication technology bio and medicals automobiles architectures construction and environmental Every chapter is related to the important and convergent fields with the technical application purpose from downstream to upstream fields Also applicability of non woven fabrics is introduced to be based on the structural analysis of dimensional concept and various non woven fabrics as a state of art embedded convergent material are emphasized in all industry fields by using nanofibers and carbon fibers **World Textiles Atlas** Multiple Contributors,2006-02-14 *The World Textiles Thesaurus* provides a unique hierarchical overview of all key concepts that are relevant to navigating scientific literature in the textiles and fibres domain Both the Tree Structure and Term Relations are available for building sophisticated search strategies In constructing the *World Textiles Thesaurus* the same editorial rules were applied as to other successful thesauri such as EMTREE the life Science Thesaurus In addition to the Thesaurus the *World Textiles Atlas*

offers a comprehensive listing of all journals indexed in the World Textiles Abstract database publishers details plus two extensive lists of major Textile Conferences and Organizations *The Manchester Municipal School of Technology* University of Manchester,1913 **Indian Journal of Fibre & Textile Research** ,2003 **International Critical Tables of Numerical Data, Physics, Chemistry and Technology** National Research Council (U.S.),Callie Hull,1927 *California* ,1930 **Physico-chemical Aspects of Textile Coloration** Stephen M. Burkinshaw,2015-11-30 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 CO<sub>2</sub> 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 **Fiber Laser Sources and Amplifiers** ,1990 **Science** John Michels (Journalist),2008 *Textile Preparation and Dyeing* Asim Kumar Roy Choudhury,2006 Dealing with the classical processes for textile dyeing as well as with the preparation of the material before dyeing this book also includes recent technological developments Both theoretical and the practical aspects are covered in order to enable the students and the technicians to understand the processes clearly **Technology of Cellulose Esters** Edward Chauncey Worden,1921 **The Mineral Industry, Its Statistics, Technology, and Trade ...** Richard Pennefather Rothwell,Joseph Struthers,David Hale Newland,Edward K. Judd,Walter Renton Ingalls,1919 **Waste Minimisation and End of Pipe Treatment in Chemical and Petrochemical Industries** G. Buitron,A. J. Englande,H. Macarie,2000-05-31 Efficient non polluting use of resources by the chemical industries requires an integrated and cost effective approach that is both holistic

and multimedia Beneficial present and future resource use should be preserved with a focus on public health and environmental protection These proceedings contain 59 papers selected both from the oral and poster presentations representing the best contributions to a conference with the specific aim of evaluating technologies and sharing experiences for minimization and end of pipe treatment of wastes in the chemical petrochemical industries This distinctive multidimensional perspective is reflected in the topics covered wastewater minimization and management water and wastewater characterisation physicochemical aerobic anaerobic and combined wastewater treatment processes textile waste treatment site restoration and volatile organic compounds treatment Attention is given to the interaction between source control and end of pipe treatment where changes in the first often influence the performance of the second Owing to increasingly stringent effluent requirements including toxicity limits and ecotoxicological concerns source control is the preferred option for waste management The opportunities for research and improvements in practical application as well as the need of enhanced international cooperation between disciplines are critical to addressing current multifaceted concerns and feature strongly in the high quality work assembled here

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