

TEXTILE PROCESSES IN WHICH ENZYME TECHNOLOGY WIDELY USED ARE:

- *DESIZING OF CELLULOSE FIBRES*
- *SCOURING OF COTTON FIBRES (BIOSOURING)*
- *BLEACHING OF FABRIC*
- *REMOVAL OF HYDROGEN PEROXIDE*
- *AGEING OF DENIM (BIOSTONING)*
- *BIOPOLISHING*
- *DEGUMMING OF SILK.*

Textile Processing With Enzymes

Javed N. Sheikh, M. D. Teli



Textile Processing With Enzymes:

Textile Processing with Enzymes A. Cavaco-Paulo, 2003 *Textile Processing with Enzymes* A. Cavaco-Paulo, G. M. Giubitz, 2003-09-02 As the need to reduce pollution in textile production increases the use of enzymes in the chemical processing of fibres and textiles is rapidly gaining recognition for its eco friendly and non toxic characteristics Enzymes are a safe alternative in a wide range of textile processes that would otherwise require harsh chemicals whose disposal would pose environmental problems *Textile Processing with Enzymes* covers all of the relevant issues from basic biochemistry and enzymology to the industrial application of these biocatalysts The book begins with the fundamental aspects of enzymes determining catalytic properties followed by a summary of fibrous and non fibrous materials as substrates for enzymes It discusses catalysis and processing with an overview of the function and application of enzymes used in textile processing and addresses process engineering and industrial enzyme applications The final chapters present the practical aspects of handling enzymes provide a detailed look at operational and storage stabilities and consider the use of enzymes in effluent treatment As a comprehensive guide to textile processing with enzymes this book explains the applications that are transforming the industry It is a valuable resource for scientists and engineers with a basic background in textiles biotechnology chemistry or engineering as well as students interested in the subject **Textile Processing with Enzymes** A Cavaco-Paulo, G. M. Giubitz, 2003-08-31 With the increasingly important requirement for textile manufacturers to reduce pollution in textile production the use of enzymes in the chemical processing of fibres and textiles is rapidly gaining wider recognition because of their non toxic and eco friendly characteristics They can be safely used in a wide selection of textile processes such as de sizing scouring bleaching dyeing and finishing where the alternatives are very harsh chemicals whose disposal into the environment causes many problems *Textile processing with enzymes* aims to provide the textile technologist with an understanding of enzymes and their use with textile materials and in process engineering It covers all the relevant aspects of textile processing with enzymes from the chemical constitution and properties of textile materials as potential substrates for enzymes to the processing of these materials from basic biochemistry and enzymology to the industrial application of these biocatalysts The introductory chapter contains an historic overview of the subject followed by an overview of the fundamental aspects of enzymes determining catalytic properties There is also a review of non fibrous materials as substrates for enzymes Chapter four covers catalysis and processing providing an analysis of the function and application of enzymes used in textile processing The fifth chapter offers important insights in process engineering and describes major problems of industrial applications of enzymes in textiles Chapter six discusses practical aspects of handling with enzymes Enzyme stabilities operational and storage stabilities are discussed in detail along with health and safety issues The final chapter deals with the potential of enzymes in textile effluent treatment It is a valuable resource for anyone interested in the use of enzymes in textiles including textile students scientists and engineers with a background in textiles

biotechnology chemistry and process engineering Aims to provide the textile technologist with an understanding of enzymes and their use with textile materials and in process engineering Covers the relevant aspects of textile processing with enzymes from the chemical constitution and properties of textile materials as potential substrates for enzymes to the processing of these materials Outlines the benefits of using enzymes in the chemical processing of fibres and textiles thanks to their non toxic and eco friendly characteristics

Enzymes in Textile Processing: A Climate Changes Mitigation Approach Muhammad Arshad,2025-02-01 The book offers a comprehensive overview of low capital cost technologies for enzyme manufacture and utilization in the textile industry with sustainable bioenergy from effluent Enzymes produced from renewable sources to replace potentially harmful chemicals in textile products have been outlined in making the textile industry greener and eco friendly The current book also addresses the strategies to achieve sustainable development goals SDGs and sustainability education in the textile sector In particular the use of green enzymes to convert by products from textile effluents into bioenergy has been highlighted This book outfits academic researchers industrial practitioners and policymakers for the engagement of green enzymes as a step toward sustainable development goals in the textile industry

Sustainable Textile Chemical Processing Javed N. Sheikh,M. D. Teli,2024-02-13 This book covers different aspects of efforts being put in making the textile chemical processing sustainable Right from understanding the importance of sustainability it covers various approaches towards sustainable textile processing Sustainability in this context makes us think proactively and introspect our business as usual practices for higher productivity lower costs and more profits Print edition not for sale in South Asia Bangladesh Bhutan India Nepal Pakistan and Sri Lanka

Industrial Enzymes Julio Polaina,Andrew P. MacCabe,2007-05-16 Man s use of enzymes dates back to the earliest times of civilization Important human activities such as the production of certain types of foods and beverages and the tanning of hides and skins to produce leather for garments serendipitously took advantage of enzyme activities Important advances in our understanding of the nature of enzymes and their action were made in the late 19th and early 20th centuries seeding the explosive expansion from the 1950s and 60s onward to the present billion dollar enzyme industry Recent developments in the fields of genetic engineering and protein chemistry are bringing ever more powerful means of analysis to bear on the study of enzyme structure and function that will undoubtedly lead to the rational modification of enzymes to match specific requirements as well as the design of new enzymes with novel properties This volume reviews the most important types of industrial enzymes covering in a balanced manner three interrelated aspects of paramount importance for enzyme performance three dimensional protein structure physicochemical and catalytic properties and the range of both classical and novel applications The material covered will be of interest to undergraduate and graduate students in biochemistry biotechnology and applied microbiology in addition to researchers and industrialists

Modern Textile Processing Dr. N. N. Mahapatra,2023-09-29 This book serves as a handy guide to research scientists and textile technologists working in R D labs and textile industries It

introduces various practical and modern techniques in textile processing A significant part of the book deals with sustainable innovations focussing on alternative eco based processes used in textile processing

Pollution Control in Textile

Industry S.C. Bhatia, 2017-10-26 Textile processing industry is characterised not only by the large volume of water required for various unit operations but also by the variety of chemicals used for various processes There is a long sequence of wet processing stages requiring input of water chemical and energy and generating wastes at each stage Any industrial activity causes pollution in one form or the other and so is the textile industry The textile industry is a significant contributor to many national economies encompassing both small and large scale operations worldwide Textile processing generates many waste streams including liquid gaseous and solid wastes some of which may be hazardous Several measures for pollution control in textile industry are discussed in detail including End of pipe technologies for wastewater treatment This book on pollution control in textile industry summarises various aspects of pollution control and is divided into 19 chapters This edition discusses enzymatic treatment of wastewater containing dyestuffs degradation of toxic dyes biological methods of removal of dyes from textile effluents water conservation in textile industry recovery of dyes and chromium from textile industry zero liquid discharge in textile industry pollution prevention in jute industry and wastes minimisation in textile industry A unique feature of the book are the chapters on carbon foot print and energy conservation in textile industry Finally the role of nanotechnology for the removal of dyes and effluents is also discussed

Sustainable Approaches in Textiles and Fashion

Subramanian Senthilkannan Muthu, 2022-03-29 This fourth volume in the series presents various sustainable approaches in the textile and fashion sector with a focus on manufacturing processes and chemicals Sustainability is one of the important aspects in today's industrial context which is followed by every industrial sector with no exception to textiles and fashion Sustainability and strict adherence to the principles of sustainability has become as one of the essential needs again for any industrial sector including textiles and fashion There are countless measures in terms of various approaches to make the textiles and fashion sector sustainable These measures but not limited to ranging from innovating and implementing new fibres and raw materials introducing innovative manufacturing methods chemicals processes to focus on all the possible stages of a textile product's life cycle from cradle to grave These approaches include making the textiles and fashion sector circular and also development of new products from sustainable raw materials processes or combination of both

Chemistry of the Textiles Industry C. Carr, 1995-05-31 The manufacture and processing of textiles is a complex and essential industry requiring many diverse skills to ensure profitability New products are continually being developed and reflect the energy and innovation of those working in the field This book focuses on the technological aspects of the chemical processing of textiles and on the modifications necessary for specific work environments Coverage ranges from fibre structure and its relationship to tensile properties textile aesthetics comfort physiology and end use performance through to the effect of domestic processing by the consumer on the textile product The industry is constantly under environmental

pressure and the book examines the nature of environmental control and the development of alternative technology to produce less environmental impact In order to provide a balanced view of the current situation authors have been drawn from academia research institutes and industry to produce a text that will be useful to both industrial readers and university students In conclusion I would like to thank the authors for their dedication and their contributions

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