



# Microbiology Of Pulp Paper

**Pratyosh Shukla**



## Microbiology Of Pulp Paper:

Microbiology of Pulp and Paper Technical Association of the Pulp and Paper Industry. Microbiological Committee, 1955

**Handbook of Biocide and Preservative Use** H.W. Rossmore, 2012-12-06 My professional interest in antimicrobial agents and contamination control goes back 50 years to my tour as a microbiologist in a field hospital in Europe during World War II With no experience and relying solely on a military handbook I prepared thermometer trays with jars of blue bichloride of mercury and pink isopropyl alcohol A preliminary typhoid diagnosis of one of our cooks resulted in the need for lab testing His stool specimen and its subsequent disposal was my problem My handbook said burn it So burn it I did in a five gallon can with gasoline Flames shot up almost six feet and my next mistake was to extinguish them with carbon tetrachloride This resulted in the production of lethal phosgene gas The hospital had a near disaster I could say that at that moment I vowed to write a how to book so that such stupidities could be avoided Nevertheless when I was offered the opportunity to edit this book I thought back on the need for a real practical treatment of my subject This book then is a practical handbook for technical service personnel and scientists who are not necessarily specialists in microbiology It provides information on suitable antimicrobial agents appropriate to their particular problem solving needs and information on the microbial groups contributing to the specific problem their ecologies and strategies for controlling their access to the area or material of interest

**Green Pulp and Paper Industry** Amit Kumar, Puneet Pathak, Dharm Dutt, 2021-07-19 This book provides recent developments and future perspectives of pulp and paper processing based on biotechnology to replace conventional environmental unfriendly chemical processes The use of microorganism and microbial enzymes in various processes such as bleaching deinking refining dissolving pulp debarking pitch removal slime control wastewater treatment and waste material valorisation are discussed

**Biopulping**, 1993 *Microbial and Enzymatic Degradation of Wood and Wood Components* Karl-Erik L. Eriksson, Robert A. Blanchette, Paul Ander, 2012-12-06 The oil crisis during the 1970s turned interest towards the utilization of renewable resources and towards lignocellulosics in particular The 1970s were also the cradle period of biotechnology and the years when biotechnical utilization of lignocellulosic waste from agriculture and forestry gained priority This was a logical conclusion since one of nature's most important biological reactions is the conversion of wood and other lignocellulosic materials to carbon dioxide water and humic substances However while biotechnology in other areas like medicine and pharmacology concerned production of expensive products on a small scale biotechnical utilization and conversion of lignocellulosics meant production of inexpensive products on a large scale Biotechnical utilization of lignocellulosic materials is therefore a very difficult task and the commercial utilization of this technology has not progressed as rapidly as one would have desired One reason for this was the lack of basic knowledge of enzyme mechanisms involved in the degradation and conversion of wood other lignocellulosics and their individual components There are also risks associated with initiating a technical development before a stable platform of knowledge is

available Several of the projects started with enthusiasm have therefore suffered some loss of interest Also contributing to this failing interest is the fact that the oil crisis at the time was not a real one At present nobody predicts a rapid exhaustion of the oil resources and fuel production from lignocellulosics is no longer a high priority

Microbial Ecology of Activated Sludge Robert Seviour, Per Halkjaer Nielsen, 2010-01-15 Microbial Ecology of Activated Sludge written for both microbiologists and engineers critically reviews our current understanding of the microbiology of activated sludge the most commonly used process for treating both domestic and industrial wastes The contributors are all internationally recognized as leading research workers in activated sludge microbiology and all have made valuable contributions to our present understanding of the process The book pays particular attention to how the application of molecular methods has changed our perceptions of the identity of the filamentous bacteria causing the operational disorders of bulking and foaming and the bacteria responsible for nitrification and denitrification and phosphorus accumulation in nutrient removal processes Special attention is given to how it is now becoming possible to relate the composition of the community of microbes present in activated sludge and the in situ function of individual populations there and how such information might be used to manage and control these systems better Detailed descriptions of some of these molecular methods are provided to allow newcomers to this field of study an opportunity to apply them in their research Comprehensive descriptions of organisms of interest and importance are also given together with high quality photos of activated sludge microbes Activated sludge processes have been used globally for nearly 100 years and yet we still know very little of how they work In the past 15 years the advent of molecular culture independent methods of study have provided tools enabling microbiologists to understand which organisms are present in activated sludge and critically what they might be doing there Microbial Ecology of Activated Sludge will be the first book available to deal comprehensively with the very exciting new information from applying these methods and their impact on how we now view microbiologically mediated processes taking place there As such it will be essential reading for microbial ecologists environmental biotechnologists and engineers involved in designing and managing these plants It will also be suitable for postgraduate students working in this field

*Encyclopedia of Microbiology*, 2009-01-14 Available as an exclusive product with a limited print run Encyclopedia of Microbiology 3e is a comprehensive survey of microbiology edited by world class researchers Each article is written by an expert in that specific domain and includes a glossary list of abbreviations defining statement introduction further reading and cross references to other related encyclopedia articles Written at a level suitable for university undergraduates the breadth and depth of coverage will appeal beyond undergraduates to professionals and academics in related fields 16 separate areas of microbiology covered for breadth and depth of content Extensive use of figures tables and color illustrations and photographs Language is accessible for undergraduates depth appropriate for scientists Links to original journal articles via Crossref 30% NEW articles and 4 color throughout NEW

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Endodontic Microbiology Ashraf F. Fouad, 2017-04-17 Endodontic Microbiology Second Edition presents a comprehensive reference to the microbiology pathogenesis management and healing of endodontic pathosis emphasizing the importance of biological sciences in understanding and managing endodontic disease and its interaction with systemic health Provides a major revision to the first book to focus on the problems related to microbes in the root canal and periapical tissues Updates current knowledge in endodontic pathosis especially regarding next generation sequencing and microbial virulence Presents useful diagrams images radiographs and annotated histological images to illustrate the concepts Emphasizes the importance of biological science in understanding and managing endodontic disease Includes contributions from the leading researchers and educators in the field

Anaerobic Technology in Pulp and Paper Industry Pratima Bajpai, 2017-03-14 This book presents a state of the art report on the treatment of pulp and paper industry effluents using anaerobic technology It covers a comprehensive range of topics including the basic reasons for anaerobic treatment comparison between anaerobic and aerobic treatment effluent types suitable for anaerobic treatment design considerations for anaerobic treatment anaerobic reactor configurations applied for treatment of pulp and paper industry effluents present status of anaerobic treatment in pulp and paper industry economic aspects examples of full scale installations and future trends

**Pulp and Paper Industry** Pratima Bajpai, 2015-04-09 Pulp and Paper Industry Microbiological Issues in Papermaking features in depth and thorough coverage of microbiological issues in papermaking and their consequences and the current state of the different alternatives for prevention treatment and control of biofilm slime considering the impact of the actual technological changes in papermaking on the control programmes The microbial issues in paper mill systems chemistry of deposits on paper machines the strategies for deposit control and methods used for the analysis of biofouling are all dealt in this book along with various growth prevention methods The traditional use of biocides is discussed taken into account the new environmental regulations regarding their use Finally discusses the trends regarding the future of the microbiological control in papermaking systems In depth coverage of microbiological issues in papermaking and their consequences Discusses eco efficient processes green processes for biofilm slime control Offers a thorough review of the current literature with links to the primary literature Comprehensive indexing Author is an authority in the pulp and paper industry

*Environmental Microbiology and Biotechnology* D. P. Singh, 2004 This Book Provides General Information In The Area Of Environmental Science Microbiology And Biotechnology Keeping In View The Recent Advances In These Disciplines This Book Aims To Focus On The Application Of Microbiology And Biotechnology In Tackling The Environmental Issues Viz Role Of Microbes In Waste Management Bioremediation Health Hygiene Biological Control And Plant Productivity Biofertilizers Vermiculture And Biocomposting This Book Offers An Exhaustive And Authentic Account Of Integral Relationship Of Microbiology Biotechnology With Environmental Science Students From All These Disciplines Would Find This Book As An Authentic Source Of Information And Would Be Immensely Benefited This Book Includes The Matter Required By Both Under Graduate

And Post Graduate Students Including Researchers Who Are Genuinely Interested In Knowing The Applied Aspect Of Microbiology Biotechnology Particularly With Reference To Environmental Issues Since Every Chapter Starts With A Basic Concept Of Problems And Issues It Easily Enables The Readers To Comprehend The Subject In A Lucid Manner

**The Microbiology of Cellulose, Hemicelluloses, Pectin and Gums** Aage Christian Thaysen, H. J. Bunker, 1927

**Microbial Bioprocesses** Pratyosh Shukla, 2023-04-20 Microbial processes are involved in food chemical pharmaceutical cosmetics energy and new material industries Over the past 2 decades new or more efficient industrial processes involving microorganisms have been launched yielding purer less expensive products or substances not available using classical chemical methods Microbial Bioprocesses aims to give an overview of established and successful processes and discusses the trends and perspectives in industrial microbiology which along with tremendous progress in genetic and metabolic engineering in recent years are once again becoming an area of innovation and emerging technologies Microbial Bioprocesses covers the unique areas like microbial volatiles MVOCs microbial bioinoculant development bacterial nanocelluloses production and processes for remediation by fungi and actinobacteria Provides an innovative description of emerging bioprocesses for biotechnological gains Provides a broad cross section of microbial bioprocess that covers several sustainability applications Gives general insights about how microorganisms can be utilized in production of various chemicals

**Microbial Biotechnology** Alexander N. Glazer, Hiroshi Nikaido, 2007-10-01 Knowledge in microbiology is growing exponentially through the determination of genomic sequences of hundreds of microorganisms and the invention of new technologies such as genomics transcriptomics and proteomics to deal with this avalanche of information These genomic data are now exploited in thousands of applications ranging from those in medicine agriculture organic chemistry public health biomass conversion to biomineralization Microbial Biotechnology Fundamentals of Applied Microbiology focuses on uses of major societal importance enabling an in depth analysis of these critically important applications Some such as wastewater treatment have changed only modestly over time others such as directed molecular evolution or green chemistry are as current as today's headlines This fully revised second edition provides an exciting interdisciplinary journey through the rapidly changing landscape of discovery in microbial biotechnology An ideal text for courses in applied microbiology and biotechnology courses this book will also serve as an invaluable overview of recent advances in this field for professional life scientists and for the diverse community of other professionals with interests in biotechnology

**Removal of Toxic Pollutants through Microbiological and Tertiary Treatment** Maulin P. Shah, 2020-08-20 Removal of Toxic Pollutants through Microbiological and Tertiary Treatment New Perspectives offers a current account of existing advanced oxidation strategies including their limitations challenges and potential applications in removing environmental pollutants through microbiological and tertiary treatment methods The book introduces new trends and advances in environmental bioremediation technology with thorough discussion of recent developments in the field Updated information as well as

future research directions in the field of bioremediation of industrial wastes is included This book is an indispensable guide to students researchers scientists and professionals working in fields such as microbiology biotechnology environmental sciences eco toxicology and environmental remediation The book also serves as a helpful guide for waste management professionals and those working on the biodegradation and bioremediation of industrial wastes and environmental pollutants for environmental sustainability Introduces various treatment schemes including microbiological and tertiary technologies for bioremediation of environmental pollutants and industrial wastes Includes pharmaceutical wastewater oil refinery wastewater distillery wastewater tannery wastewater textile wastewater mine tailing wastes plastic wastes and more Describes the role of relatively new treatment technologies and their approaches in bioremediation including molecular and protein engineering technologies microbial enzymes bio surfactants plant microbe interactions and genetically engineered organisms Provides many advanced technologies in the field of bioremediation and phytoremediation including electro bioremediation technology microbial fuel cell technology nano bioremediation technology and phytotechnologies

Advances in Applied Microbiology Allen I. Laskin, Geoffrey M. Gadd, 2001-10-08 *Advances in Applied Microbiology* offers intensive reviews of the latest techniques and discoveries in this rapidly moving field The editors are recognized experts and the format is comprehensive and instructive *Industrial Enzyme Applications* Andreas Vogel, Oliver May, 2019-07-10 This reference is a must read It explains how an effective and economically viable enzymatic process in industry is developed and presents numerous successful examples which underline the efficiency of biocatalysis *Pulp and Paper Manufacture: Papermaking and paperboard making* Joint Textbook Committee of the Paper Industry, 1970 **Microbial Biotechnology** Pratyosh Shukla, 2016-12-01 *Microbial Biotechnology An Interdisciplinary Approach* covers all aspects of microbial biotechnology whilst bringing the field of functional foods and microbial bioremediation to the fore Recounting the interdisciplinary scope of biotechnology and its discoveries this text presents innovative ideas in the field of emerging biotechnology providing the scientific community with a much needed new resource Acting as an important means of information for researchers working in interdisciplinary areas of research this text Envisages the recent ideas of novel findings in microbiology Provides insight into the various interdisciplinary research avenues Uniquely covers a diverse range of topics Presents groundbreaking new findings in key areas of modern biotechnology Enhanced and straight forward descriptions cater to the needs of researchers working in areas of bacterial exopolysaccharides microalgal proteomics applications of Microbial L asparaginases novel aspects of bioremediation Probiotics and their impact on society and microbial community analysis in waste water treatment techniques It will also prove crucial reading for senior undergraduate and graduate students and professionals working in areas of modern biotechnology

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