



# Pulp and Paper Industry: Microbiological Issues in Papermaking

By Pratima Bajpai

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**Pulp and Paper Industry: Microbiological Issues in Papermaking** By Pratima Bajpai

*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

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#### About the Author

Dr. Pratima Bajpai is currently working as a Consultant in the field of Paper and Pulp. She has a vast 36 years of experience in this field. She has worked at National Sugar Institute Kanpur (India), University of Saskatchewan (Canada), University of Western Ontario (Canada), and Thapar Center for Industrial Research and Development (India). Dr. Bajpai's main areas of expertise are industrial biotechnology, pulp and paper, and environmental biotechnology. She has contributed immensely to the field of industrial biotechnology and is a recognized expert in the field. Dr. Bajpai has written several advanced level technical books on environmental and biotechnological aspects of pulp and paper which have been published by leading publishers in the USA and Europe. She has also contributed chapters to a number of books and encyclopedia, obtained 11 patents, written several technical reports, and has implemented several processes in Indian Paper mills. Dr. Bajpai is an active member of the American Society of Microbiologists and is a reviewer of many international research journals. She has also handled several Sponsored Research Projects from industry and government agencies. She is an active member of the New York Academy of Science, American Society for Microbiology, and many more.

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