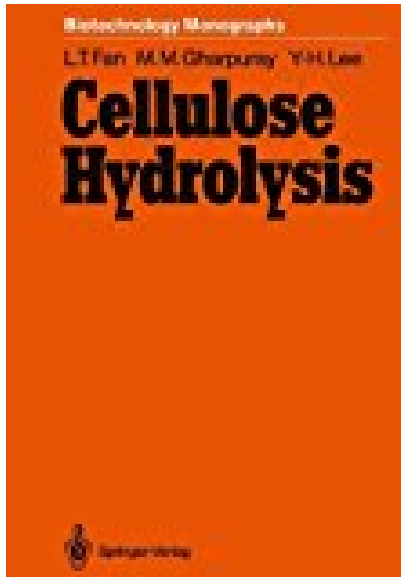


# Cellulose Hydrolysis Biotechnology Monographs

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## BOOK DETAILS

- Author : Liang-tseng Fan
- Pages : 198 Pages
- Publisher : Springer
- Language : English
- ISBN : 3540176713

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## **BOOK SYNOPSIS**

The agricultural and forestry processing wastes (lignocellulosics) are an important material resource and energy source. However, if untreated they can pose a danger to the environment and potentially valuable resources. Microorganisms contribute significantly to the problem of biomass degradation, its recycling and conservation. In the recent years, an increasing interest shown by the textile, food, feed & pulp and paper industries in the microbial and enzymatic processes has triggered in-depth studies of lignocellulolytic microorganisms and their enzymes. Moreover, the advent of recombinant DNA technology in the late 1970s further paved the way for developing technologies based on lignocellulolytic microbes and enzymes. Lignocellulose Biotechnology presents a comprehensive review of the research directed towards potential and environment friendly agricultural and forest byproducts. The book comprises 22 chapters, divided in four sections. It deals with a wide range of topics including biodiversity of lignocellulose degrading microorganisms and their enzymes, molecular biology of biodegradation of lignin, characterization of lignocellulolytic enzymes, bioconversion of plant biomass to produce enzymes, animal feed, bioethanol and industrial applications of lignocellulolytic enzymes. The chapters dealing with industrial applications also address current biotechnological approaches in lignocellulose bioconversion to value added products. This book is essential reading for students, researchers, scientists and engineers working in the areas of environmental microbiology, environmental biotechnology, life sciences, waste management and biomaterials.

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