

## Handbook of Industrial Food Microbiology

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This new reference volume, Handbook of Industrial Food Microbiology, introduces industrial microbiology in the food industry. The techniques and technologies discussed in the book focus on production, processing, and recovery of food industry metabolites (primary or secondary). The process of alcohol production, fermentation metabolites, and drug delivery components through food are the main highlights of the book. The authors use their research and academic experience in food science and technology research and other areas of applied microbiology to serve as a foundation for this volume. The volume first provides an introduction to and history of industrial food microbiology and goes on to discuss the biology of industrial food microbiology, food fermentation systems, microbial production of metabolites, and downstream processing. The book lays out the principles of overproduction of metabolites in the food industry and also addresses biomass production, immobilization of enzymes in food systems, and waste treatment in the food industries. The volume clearly covers the elements and basic concepts of biology and microbiology for the benefit of students who may not be familiar with the biological sciences that act as base of industrial microbiology, such as, for example, graduates of chemical and civil engineering. Intended for undergraduates and beginning graduate students in chemical engineering, microbiology, and biotechnology, the volume will also be of interest to those who are studying pharmacy, biochemistry, and general biology. Students and professionals in the fields of civil engineering and public health will be interested in the section on waste disposal.

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