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this book contains a unique collection of more than 200 biotechnology case studies. in the practice-based problems and case studies, the editors have expertly chosen the most appropriate methods or techniques for solving the given problems. the case studies are classified into the following groups: fermentation of protein-rich and carbohydrate-rich food/feed products; fermentations of useful chemicals; bioreactors; industrial, clinical and veterinary biotechnology; microbial and plant cell cultures; cell-based systems; biotransformation technology; systems and biomaterials; and environmental and management aspects. every chapter of this book is organized in a consistent manner. there is a strong focus on the practical aspects of biotechnology in the chapter topics. for example, the chapters "fermentation of protein-rich and carbohydrate-rich food/feed products," "bioreactors," "cell-based systems," "biotransformation technology," and "environmental and management aspects," are mainly concerned with the use of biotechnology for manufacturing the respective product, while the chapters on "industrial biotechnology," "clinical and veterinary biotechnology," "microbial and plant cell cultures," and "protein expression and post-translational processing," more focussed on the relevant laboratory technique. but, of course, the chapters on "fermentation," "cell-based systems," "biotransformation technology," and "microbial and plant cell cultures" also contain relevant biotechnological aspects, while the chapters on "post-translational

processing," "bioprocess engineering," and "bioreactors" also contain relevant biotechnological aspects, although they can also be of interest to applied scientists working in pharmaceutical and biotechnological companies.

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this interdisciplinary journal, one of the first scientific journals on biotechnology, is dedicated to bioprocess engineering. it publishes original articles on methods and tools for the production, characterization and use of biological systems and processes, both biological and engineered. articles cover a wide range of topics including culture media, bioreactors, cell growth, cellular metabolism, substrate and product choice and use, process control and engineering, and technology transfer. it welcomes papers dealing with all aspect of bioprocess engineering, with particular emphasis on those technologies that transform biomass into products and provide services. an active learning lab was developed for use in several course sections based on the concepts presented in the new section of the first chapter. students had to construct the fermenter and inoculate it with microbes to grow cells and ethanol and then determine and quantify the amount of ethanol generated based on the equation developed. students then had to demonstrate the exchange of electrons and protons between the cells and the fermentation medium. students received feedback on a daily basis so that they could modify their inoculum and optimize their work. when the concentrations of residual carbon dioxide, ethanol, and other gasses were determined students used the equation to calculate the yield. this allowed the students to practice quantitative skills, data analysis, problem solving, and apply the principles presented. of course, the general topic of biotechnology is important for any chemical engineering curriculum. many readers will enjoy the original story about the first synthesis of penicillin. as in traditional biotechnology courses, the student will be given the opportunity to apply the knowledge of biotechnology to their own discipline. students studying the biocatalytic aspects of the system will be able to construct their own bioreactor, biocatalyst and biotransformation

system. most importantly, all students will hopefully enjoy the fundamentals and application of biology. 5ec8ef588b

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