

Fed-Batch Cultures: Principles and Applications of Semi-Batch Bioreactors (Cambridge Series in Chemical Engineering)

By Henry C. Lim, Hwa Sung Shin

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Many, if not most, industrially important fermentation and bioreactor operations are carried out in fed-batch mode, producing a wide variety of products. In spite of this, there is no single book that deals with fed-batch operations. This is the first book that puts together all the necessary background material regarding the "what, why, and how" of optimal and sub-optimal fed-batch operations. Numerous examples are provided to illustrate the application of optimal fed-batch cultures. This unique book, by world experts with decades of research and industrial experience, is a must for researchers and industrial practitioners of fed-batch processes (modeling, control, and optimization) in biotechnology, fermentation, food, pharmaceuticals, and waste treatment industries.

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Editorial Review

About the Author
Dr Lim gained industrial experience by working for Pfizer for five years in areas of reaction engineering and separation and purification. He taught for twenty-one years at Purdue University and initiated biochemical engineering research in 1970. He was recruited to the University of California, Irvine, where he was founding chair of biochemical engineering and chemical engineering for ten years and taught for twenty-two years. He has extensive consulting experiences with Leeds and Northrup, Novo Enzyme Corporation, Pharmacontrol Inc., Eli Lilly, Merck, Monsanto, LG Biotech Inc., CJ Biotechnology and Zander Renewable Resources. He studied bioreactions and bioreactor engineering, modeling, optimization and control of bioreactors, cellular regulation, recombinant DNA technology and bioremediation. Dr Lim has supervised more than 50 PhD theses and published more than 160 journal articles and 2 books. He received the Food, Pharmaceutical and Bioengineering Division Award of the AIChE for his work on bioreactor and enzyme engineering.

Dr Shin received formal education at Postech (Korea) and the University of California, Irvine. After postdoctoral positions at Irvine and the University of Michigan, he joined the Biological Engineering Department of Inha University, where he is currently the chair of the department. He studies the optimization and control of fed-batch fermentation, control of stem cells and neurons in micro-fluidic cell culture systems, and application of optimization theory to stem cells and neural tissues in defined macro and micro environments.

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