



Modelling and Control of Biotechnological Processes: Proceedings of the 1st IFAC Symposium, Noordwijkerhout, The Netherlands, 11 - 13 December 1985 (IFAC proceedings series)

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Modelling and Control of Biotechnological Processes contains the proceedings of the International Federation of Automatic Control's First Symposium on Modeling and Control of Biotechnological Processes held in Noordwijkerhout, The Netherlands, on December 11-13, 1985. The papers explore modeling and control of biotechnological processes such as fermentation and biological wastewater treatment.

This book consists of 37 chapters divided into 11 sections and begins with a discussion on the control of fermentation processes; modeling of biotechnical processes; and application of measurement and estimation techniques to biotechnology. The following sections focus on adaptive control theory, applications of adaptive control, and control and modeling of bioreactors. The reader is also introduced to measurement techniques and sensors, with emphasis on pyrolysis mass spectrometry; rapid bioelectrochemical methods; and a self-tuning controller for multiloop controlled fed-batch fermentation. The remaining sections deal with parameter identification and estimation; Kalman filtering techniques; optimization of production processes; modeling of microkinetics; and optimization theory.

This monograph will be of interest to researchers and practitioners in the field of biotechnology.

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