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Chemical And Bioprocess Control Solution

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He earned his MSc. degree in Control Engineering and Ph.D. degree in Chemical Engineering from the University of Manchester Institute of Science and Technology, U.K. Before joining Texas Tech University in 2004, he taught at Colorado State University for more than twenty years. He has published widely in the area of bio-process control. Dr.

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Hello and welcome to week three of the Industrial Biotechnology MOOC, Biochemical and Bioprocess Engineering. This week, we're going to cover a general introduction to the background of bioprocessing, biochemical engineering, microbial fermentation and bioreactor design, biocatalysis and enzymatic processes, recovery of both large and small molecules, and finally process economics and scale up.

Introduction to Biochemical and Bioprocess Engineering

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Bio-process control coverage: Background and history of bio-processing and bio-process control added to the introductory chapter; Discussion and analysis of the primary bio-sensors used in bio-tech industries added to the chapter on control loop hardware; Significant proportion of examples and homework problems in the text deal with bio-processes

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The purpose of bioprocess control is to ensure that the plant operates as designed. This chapter presents the fundamental principles for control of biochemical processes. Through examples, the selection of manipulated and controlled variables in the classical reactor configurations is discussed, so are control objectives and the challenges in ...

Control of Bioprocesses - Fundamental Bioengineering ...

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