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Reviews

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STATISTICAL OPTIMIZATION OF BIOLOGICAL SYSTEMS (HARDBACK)



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Taylor Francis Inc, United States, 2015. Hardback. Condition: New. Language: English . Brand New Book. A number of books written by statisticians address the mathematical optimization of biological systems, but do not directly address statistical optimization. Statistical Optimization of Biological Systems covers the optimization of bioprocess systems in its entirety, devoting much-needed attention to the experimental optimization of biological systems using statistical techniques. Employing real-life bioprocess optimization problems and their solutions as examples, this book: * Describes experimental design from identifying process variables to selecting a screening design, applying response surface methodology, and conducting regression modeling * Demonstrates the statistical analysis and optimization techniques employed to determine optimum levels of the process variables for both single- and multiple-response systems * Discusses important experimental designs, such as evolutionary operation programs and Taguchi s designs * Delineates the concept of hybrid experimental design using the essence of a genetic algorithm Statistical and non-statistical optimization methods. More importantly, the book explains how to successfully apply mathematical and statistical techniques to the optimization of biological systems.

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