

Nonlinear and Mixed-Integer Optimization

Fundamentals and Applications

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Nonlinear and Mixed-Integer Optimization: Fundamentals and Applications, Christodoulos A. Floudas, Oxford University Press, 1995, 0195100565, 9780195100563, 462 pages. Filling a void in chemical engineering and optimization literature, this book presents the theory and methods for nonlinear and mixed-integer optimization, and their applications in the important area of process synthesis. Other topics include modeling issues in process synthesis, and optimization-based approaches in the synthesis of heat recovery systems, distillation-based systems, and reactor-based systems. The basics of convex analysis and nonlinear optimization are also covered and the elementary concepts of mixed-integer linear optimization are introduced. All chapters have several illustrations and geometrical interpretations of the material as well as suggested problems. Nonlinear and Mixed-Integer Optimization will prove to be an invaluable source--either as a textbook or a reference--for researchers and graduate students interested in continuous and discrete nonlinear optimization issues in engineering design, process synthesis, process operations, applied mathematics, operations research, industrial management, and systems engineering..

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A Mixed Integer Nonlinear Programming Model to Optimize the Use of Aircraft Deicing and Anti-icing Fluids , Scott E. Ornitz, 2009, , 123 pages. A detailed study is proposed for understanding the use of aircraft deicing and anti-icing fluids (ADAF) and optimal use of these fluids in airport operations. A detailed

Engineering Optimization Methods and Applications, G. V. Reklaitis, 1983, Technology & Engineering, 684 pages. A basic text for engineering students and practicing engineers dealing with design problems in all engineering disciplines. Optimization algorithms are developed through

Topics in Mixed Integer Nonlinear Programming , Kumar Abhishek, 2008, , 267 pages. A Mixed Integer Nonlinear Program (MINLP) is the problem of minimizing a nonlinear function subject to nonlinear constraints and integrality restrictions on some or all of the

Baseline Pharmaceutical Engineering Guide for New and Renovated ..., Volume 1 , , Jan 1, 2007, , .

Practical Methods of Optimization: Constrained optimization, Volume 2 , Roger Fletcher, 1981, Mathematics, 224 pages. .

Model solving in mathematical programming , H. P. Williams, Apr 13, 1993, , 359 pages. Uses numerical examples with commentary on the nature of applications. Definitions are introduced in context and examples are intended to motivate discussion as well as aid in

Heat Exchanger Network Synthesis Process Optimization by Energy and Resource Analysis, Uday V. Shenoy, 1995, Science, 642 pages. Heat Exchanger Network Synthesis provides engineers, designers, and industrial practitioners with a how-to manual for understanding the methodology for conserving energy

Elements of chemical reaction engineering , H. Scott Fogler, 1986, Technology & Engineering, 769 pages. The Definitive, Fully-Updated Guide to Solving Real-World Chemical Reaction Engineering Problems This book combines authoritative coverage of the principles of chemical reaction

Microeconomic Theory , Andreu Mas-Colell, Michael Dennis Whinston, Jerry R. Green, 1995, Business & Economics, 981 pages. Economics..

Nonlinear Optimization, Volume 13 , Andrzej P. Ruszczyński, Jan 1, 2006, Mathematics, 448 pages. Optimization is one of the most important areas of modern applied mathematics, with applications in fields from engineering and economics to finance, statistics, management

Nonlinear Equations and Optimisation , L. T. Watson, J. A. Ford, M. Bartholomew-Biggs, 2001, Mathematics, 371 pages. /homepage/sac/cam/na2000/index.html7-Volume Set now available at

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