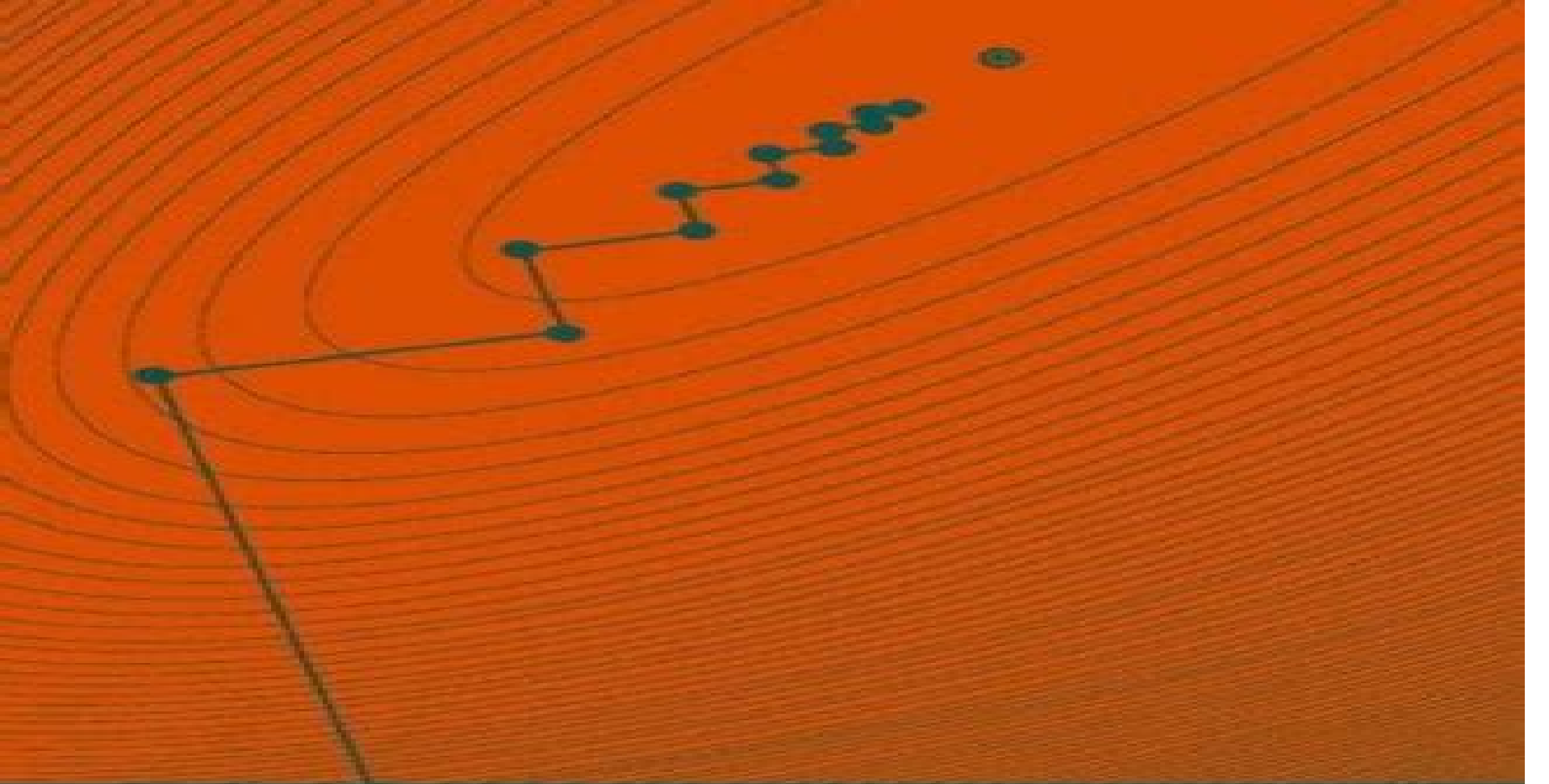




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Large Scale Optimization in Supply Chains and Smart Manufacturing Jesús M. Velásquez-Bermúdez, Marzieh Khakifirooz, Mahdi Fathi, 2019-09-06

In this book, theory of large scale optimization is introduced with case studies of real world problems and applications of structured mathematical modeling. The large scale optimization methods are represented by various theories such as Benders decomposition, logic based Benders decomposition, Lagrangian relaxation, Dantzig Wolfe decomposition, multi tree decomposition, Van Roy cross decomposition and parallel decomposition for mathematical programs such as mixed integer nonlinear programming and stochastic programming. Case studies of large scale optimization in supply chain management, smart manufacturing and Industry 4.0 are investigated with efficient implementation for real time solutions. The features of case studies cover a wide range of fields including the Internet of things, advanced transportation systems, energy management, supply chain networks, service systems, operations management, risk management and financial and sales management. Instructors, graduate students, researchers and practitioners would benefit from this book finding the applicability of large scale optimization in asynchronous parallel optimization, real time distributed network and optimizing the knowledge based expert system for convex and non convex problems.

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