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and Gradient-Based Algorithms. Authors: Snyman, Jan A, Wilke, Daniel N ... Daniel N. Wilke is a senior lecturer in the Department of Mechanical and Aeronautical Engineering of the University of Pretoria. He teaches computer programming, mathematical programming and computational ...

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years, in teaching Practical Mathematical Optimization to undergraduate as well as graduate engineering and science students at the University of Pretoria. The principal motivation for writing this work has not been the teaching of mathematics per se, but to equip students with the nec

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PRACTICAL OPTIMIZATION - Lagout

High-level controllers such as model predictive control (MPC) or real-time optimization (RTO) employ mathematical optimization. These algorithms run online and repeatedly determine values for decision variables, such as choke openings in a process plant, by iteratively solving a mathematical optimization problem including constraints and a model of the system to be controlled.

Mathematical optimization - Wikipedia

Practical Mathematical Optimization. Springer, 2005. Storn R and Price K. Differential evolution - A simple and efficient heuristic

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Rice University - Computational and Applied Mathematics

Mathematical Optimization In optimization, one characterizes values of decision variables in order to satisfy an objective subject to a given set of constraints. In mathematical optimization, the objective and constraints are given as models of real-world phenomena. This means that they may be given algebraically or as outputs of a computer simulation.

Mathematical Optimization - Lehigh University

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The book's examples are highly varied, interesting and well thought out."—Steinar Hauan, Carnegie Mellon University "An extremely interesting introduction to the field of mathematical optimization. I know of no other book in the field that offers so many illustrations of the applicability of deep theoretical issues in optimization.

Optimization | Princeton University Press

The main focus of the research activity of the group is on mathematical theory and methods applicable to managerial decision-making, particularly non-linear, discrete, and multi-criteria optimization. Research is typically a mixture of theoretical investigation and practical application or industrial collaboration.

Optimization, School of Mathematics - University of

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Birmingham

Serge Kruk, PhD is a professor at the Department of Mathematics and Statistics at Oakland University and worked for Bell-Northern Research. His current research interests still bear the stamp of practicality enforced by years in industry: algorithms for semidefinite optimization, scheduling, feasibility and the related numerical linear algebra and analysis.

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