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Nota di contenuto	Preface -- Robustness of Convergence Proofs in Numerical Methods in Unconstrained Optimization -- Robust Optimal Control of Continuous Linear Quadratic System Subject to Disturbances -- A Linearly-Growing Conversion from the Set Splitting Problem to the Directed Hamiltonian Cycle Problem -- Optimum Confidence Interval Analysis in Two-factor Mixed Model with a Concomitant Variable for Gauge Study -- Optimization of Engineering Survey Monitoring Networks -- Distributed Fault Detection Using Consensus of Markov Chains -- Engineering Optimization Approaches of Nonferrous Metallurgical Processes -- Development of Neural Network Based Traffic Flow Predictors Using Pre-Processed Data -- Economic Scheduling of CCHP Systems Considering the Tradable Green Certificates -- Optimizations in Project Scheduling: A State-of-Art Survey -- Lean and Agile Construction Project Management: As a Way of Reducing Environmental Footprint of the Construction Industry -- Managing Construction Projects in Hong Kong: Analysis of Dynamic Implications of Industrial Improvement Strategies -- Dynamic Project Management: An Application of System Dynamics in Construction Engineering and Management. A Lean Framework for Production Control in Complex and Constrained Construction Projects (PC4P) Optimization in the Development of Target Contracts.

This book presents recent advances in optimization and control methods with applications to industrial engineering and construction management. It consists of 15 chapters authored by recognized experts in a variety of fields including control and operation research, industrial engineering, and project management. Topics include numerical methods in unconstrained optimization, robust optimal control problems, set splitting problems, optimum confidence interval analysis, a monitoring networks optimization survey, distributed fault detection, nonferrous industrial optimization approaches, neural networks in traffic flows, economic scheduling of CCHP systems, a project scheduling optimization survey, lean and agile construction project management, practical construction projects in Hong Kong, dynamic project management, production control in PC4P, and target contracts optimization. The book offers a valuable reference work for scientists, engineers, researchers and practitioners in industrial engineering and construction management.

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