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H2optimization: An Introduction to Optimization and Operations Research for Infrastructure Professionals (Paperback)

By Dr Barry L Liner, Dr Holger R Maier

Aldera, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.From water supply to wastewater to transportation to energy, our infrastructure is essential to daily life. Infrastructure is also expensive and long lasting. This begs the questions, are we building the right things and spending our money most efficiently? The dedicated infrastructure professionals who have focused on designing and building our modern society are being constrained by money, ageing infrastructure, changes in population centers and more. Optimization techniques can help civil engineers, urban planners, and other stakeholders get the most bang for our buck. H2Optimization provides insight into how operations research techniques can be applied to infrastructure problems such as those faced by the water sector, including drinking water, wastewater, stormwater, and even solid waste and energy. Written by professors from the US and Australia, this book is divided into three parts to provide the most beneficial use for a variety of readers. Part I: Structure of Optimization Problems, delivers an overview of how optimization problems can be set up and provides examples. The goal is to familiarize the reader with the overall process of optimization. Part II:...



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