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Optimization Methods: From Theory to Design Scientific and Technological Aspects in Mechanics

By Marco Cavazzuti



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This book is about optimization techniques and is subdivided into two parts. In the first part a wide overview on optimization theory is presented. Optimization is presented as being composed of five topics, namely: design of experiment, response surface modeling, deterministic optimization, stochastic optimization, and robust engineering design. Each chapter, after presenting the main techniques for each part, draws application oriented conclusions including didactic examples. In the second part some applications are presented to guide the reader through the process of setting up a few optimization exercises, analyzing critically the choices which are made step by step, and showing how the different topics that constitute the optimization theory can be used jointly in an optimization process. The applications which are presented are mainly in the field of thermodynamics and fluid dynamics due to the author's background.



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Review

From the reviews:

“The objective of the optimization is the maximization of the power output of the engine and its thermodynamic efficiency. In the application part several numerical results are given. The book can be recommended to readers interested in numerical optimization of concrete engineering structures and technical systems.” (Kurt Marti, Zentralblatt MATH, Vol. 1259, 2013)

From the Back Cover

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