



# PRINCIPLES OF OPTIMAL DESIGN

Modeling and Computation  
Second Edition

Panos Y. Papalambros  
and Douglass J. Wilde

# Principles Of Optimal Design Modeling And Computation

**Nicholas Zabararas, Keith A.  
Woodbury, Martin Raynaud**



## **Principles Of Optimal Design Modeling And Computation:**

*Principles of Optimal Design* Panos Y. Papalambros, Douglass J. Wilde, 2000-07-10 *Principles of Optimal Design* puts the concept of optimal design on a rigorous foundation and demonstrates the intimate relationship between the mathematical model that describes a design and the solution methods that optimize it. Since the first edition was published, computers have become ever more powerful, design engineers are tackling more complex systems, and the term optimization is now routinely used to denote a design process with increased speed and quality. This second edition takes account of these developments and brings the original text thoroughly up to date. The book now includes a discussion of trust region and convex approximation algorithms. A new chapter focuses on how to construct optimal design models. Three new case studies illustrate the creation of optimization models. The final chapter on optimization practice has been expanded to include computation of derivatives, interpretation of algorithmic results, and selection of algorithms and software. Both students and practising engineers will find this book a valuable resource for design project work.

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