

## Principles Of Optimal Design Modeling And Computation

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Principles Of Optimal Design Modeling

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In the decision-making paradigm of the design process we examine the intended artifact in order to identify possible alternatives and select the most suitable one. An abstract description of the artifact using mathematical expressions of relevant natural laws, experience, and geometry is the mathematical model of the artifact. This mathematical model may contain many alternative designs, and so criteria for comparing these alternatives must be introduced in the model.

Optimization Models (Chapter 1) - Principles of Optimal Design

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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.

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Book Description Optimization is a standard concept in engineering design, and in other disciplines which use mathematical decisionmaking methods. This textbook presents the key concepts and algorithms available for solving design optimization problems.

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