

Introduction To Optimum Design Solution

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Introduction To Optimum Design Solution

This chapter provides an introduction to design optimization. The design of a system begins with the analysis of various options. Subsystems and their components are identified, designed, and tested. This process results in a set of drawings, calculations, and reports by which the system can be fabricated.

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An introduction to the numerical methods for solution of optimum design problems is presented. Search methods are classified into different categories, such as derivative-based methods, direct search methods, derivative-free methods, and nature-inspired methods.

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(Problem 2.17 of Arora's Introduction to Optimum Design): Design a hollow circular beam shown in figure for two conditions when $P = 50\text{KN}$, the axial stress σ should be less than σ_a , and when $P = 0$, deflection δ due to self weight should satisfy $\delta \leq 0.001\text{l}$.

Question 1 - UF MAE

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