

## 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

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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  $\sigma$  should be less than  $\sigma_a$ , and when  $P = 0$ , deflection  $\delta$  due to self weight should satisfy  $\delta \leq 0.001l$ .

## **Question 1 - UF MAE**

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