# Introduction To Optimum Design Solutions

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Chapter 1 - Introduction to Design Optimization Pages 3-18. Abstract A general process of designing new systems or improving existing systems is explained in this chapter. Distinction is made between engineering analysis and engineering design activities. The idea of designing optimum systems is introduced.

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EGM 6365 HW#2 Solution 7 Question-3 (Problem 2.17 of Arora's Introduction to Optimum Design): A beam of rectangular cross section as shown in figure is subjected to maximum bending moment of M and maximum sheer of V. The allowable bending and shearing stresses are  $\sigma a$  and  $\tau a$  respectively.

#### **Ouestion 1 - UFL MAE**

Introduction to Optimum Design. Optimization is a mathematical tool developed in the early 1960's used to find the most efficient and feasible solutions to an engineering problem. It can be used to find ideal shapes and physical configurations, ideal structural designs, maximum energy efficiency, and many other desired goals of engineering.

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