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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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About the author (2004) Arora is an internationally recognized researcher in the field of optimization and his book Introduction to Optimum Design, 3rd Edition (Academic Press, 2012, 978-0-12-381375-6) is used worldwide. Jasbir Singh Arora is an F. Wendell Miller Professor of Engineering, a Professor of Civil and Environmental Engineering,...

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* Allows engineers involved in the design process to adapt optimum design concepts in their work using the material in the text. * Basic concepts of optimality conditions and numerical methods are described with simple examples, making the material high teachable and learnable.

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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 $\delta \leq 0.001\text{l}$. The limits for dimension are $t = 0.10$ to 1.0

Question 1 - UFL MAE

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