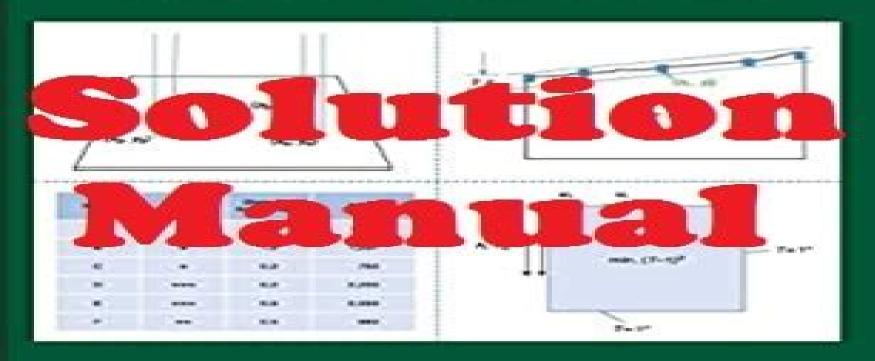
Optimization Concepts and Applications in Engineering

THIRD EDITION

ASHOK D. BELEGUNDU TIRUPATHI R. CHANDRUPATLA



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optimization in a rigorous yet simplified manner illustrate various concepts and procedures with simple examples and

demonstrate their applicability to engineering design problems Formulation of a design problem as an optimization problem

is emphasized and illustrated throughout the text Excel and MATLAB are featured throughout as learning and teaching aids. The 3rd edition has been reorganized and enhanced with new material making the book even more appealing to instructors regardless of the level they teach the course Examples include moving the introductory chapter on Excel and MATLAB closer to the front of the book and adding an early chapter on practical design examples for the more introductory course and including a final chapter on advanced topics for the purely graduate level course Basic concepts of optimality conditions and numerical methods are described with simple and practical examples making the material highly teachable and learnable Applications of the methods for structural mechanical aerospace and industrial engineering problems Introduction to MATLAB Optimization Toolbox Optimum design with Excel Solver has been expanded into a full chapter Practical design examples introduce students to usage of optimization methods early in the book New material on several advanced optimum design topics serves the needs of instructors teaching more advanced courses

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