INTRODUCTION TO

OPTIMUM DESIGN



JASBIR SINGH ARORA





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Jasbir S. Arora

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Introduction to Optimum Design Jasbir Singh Arora, 2004-06-02 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 This book is intended for use in a first course on engineering design and optimization Material for the text has evolved over a period of several years and is based on classroom presentations for an undergraduate core course on the principles of design Virtually any problem for which certain parameters need to be determined to satisfy constraints can be formulated as a design optimization problem The concepts and methods described in the text are guite general and applicable to all such formulations Inasmuch the range of application of the optimum design methodology is almost limitless constrained only by the imagination and ingenuity of the user The book describes the basic concepts and techniques with only a few simple applications. Once they are clearly understood they can be applied to many other advanced applications that are discussed in the text 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 Classroom tested for many years to attain optimum pedagogical effectiveness Introduction to Optimum Design Jasbir Singh Arora, 2016-04-05 Introduction to Optimum Design Fourth Edition carries on the tradition of the most widely used textbook in engineering optimization and optimum design courses It is intended for use in a first course on engineering design and optimization at the undergraduate or graduate level in engineering departments of all disciplines with a primary focus on mechanical aerospace and civil engineering courses Through a basic and organized approach the text describes engineering design optimization in a rigorous yet simplified manner illustrates various concepts and procedures with simple examples and demonstrates their applicability to engineering design problems Formulation of a design problem as an optimization problem is emphasized and illustrated throughout the text using Excel and MATLAB as learning and teaching aids This fourth edition has been reorganized rewritten in parts and enhanced with new material making the book even more appealing to instructors regardless of course level Includes basic concepts of optimality conditions and numerical methods that are described with simple and practical examples making the material highly teachable and learnable Presents applications of optimization methods for structural mechanical aerospace and industrial engineering problems Provides practical design examples that introduce students to the use of optimization methods early in the book Contains chapter on several advanced optimum design topics that serve the needs of instructors who teach more advanced courses Introduction to Optimum Design Jasbir Arora, 2011-08-17 Introduction to Optimum Design is the most widely used textbook in engineering optimization and optimum design courses It is intended for use in a first course on engineering design and optimization at the undergraduate or graduate level within

engineering departments of all disciplines but primarily within mechanical aerospace and civil engineering The basic approach of the text is to describe an organized approach to engineering design 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 **Engineering Optimization** S. S. Rao, 2000 A Rigorous Mathematical Approach To Identifying A Set Of Design Alternatives And Selecting The Best Candidate From Within That Set Engineering Optimization Was Developed As A Means Of Helping Engineers To Design Systems That Are Both More Efficient And Less Expensive And To Develop New Ways Of Improving The Performance Of Existing Systems Thanks To The Breathtaking Growth In Computer Technology That Has Occurred Over The Past Decade Optimization Techniques Can Now Be Used To Find Creative Solutions To Larger More Complex Problems Than Ever Before As A Consequence Optimization Is Now Viewed As An Indispensable Tool Of The Trade For Engineers Working In Many Different Industries Especially The Aerospace Automotive Chemical Electrical And Manufacturing Industries In Engineering Optimization Professor Singiresu S Rao Provides An Application Oriented Presentation Of The Full Array Of Classical And Newly Developed Optimization Techniques Now Being Used By Engineers In A Wide Range Of Industries Essential Proofs And Explanations Of The Various Techniques Are Given In A Straightforward User Friendly Manner And Each Method Is Copiously Illustrated With Real World Examples That Demonstrate How To Maximize Desired Benefits While Minimizing Negative Aspects Of Project Design Comprehensive Authoritative Up To Date Engineering Optimization Provides In Depth Coverage Of Linear And Nonlinear Programming Dynamic Programming Integer Programming And Stochastic Programming Techniques As Well As Several Breakthrough Methods Including Genetic Algorithms Simulated Annealing And Neural Network Based And Fuzzy Optimization Techniques Designed To Function Equally Well As Either A Professional Reference Or A Graduate Level Text Engineering Optimization Features Many Solved Problems Taken From Several Engineering Fields As Well As Review Questions Important Figures And Helpful References Engineering Optimization Is A Valuable Working Resource For Engineers Employed In Practically All Technological Industries It Is Also A Superior Didactic Tool For Graduate Students Of Mechanical Civil Electrical Chemical And Aerospace Engineering Inverse Problems and Optimal Design in Electricity and Magnetism Pekka Neittaanmäki, M. Rudnicki, A. Savini, 1996-01-11 The impact of optimization methods in electromagnetism has been much less than in mechanical engineering and particularly the solution of inverse problems in structural mechanics This book addresses this omission it will serve as a guide to the theory as well as the computer implementation of solutions It is self contained covering all the mathematical theory necessary Introduction To Optimum Design, 2E Jasbir S. Arora, 2004

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