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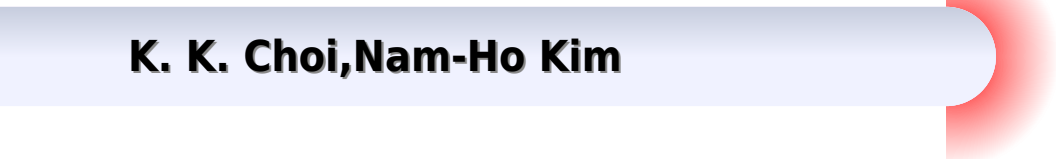
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K. K. Choi, Nam-Ho Kim



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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.

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Case Studies in Optimal Design and Maintenance Planning of Civil Infrastructure Systems Dan M. Frangopol, 1999-01-01 Sponsored by the Structural Engineering Institute of ASCE. This collection contains 19 papers on the optimal design and maintenance planning of civil infrastructure systems such as bridges, buildings, transmission line structures, and nuclear power plants. The authors, coming from Austria, Canada, Denmark, England, Germany, Israel, Japan, Malaysia, Mexico, Switzerland, and the United States, offer case studies that are detailed and research findings that describe applications of life cycle reliability and optimization theories to civil infrastructure systems. Topics include prioritization of bridge maintenance needs, life cycle optimization of structures, cost effectiveness optimization for aseismic design criteria of buildings, condition assessment and maintenance of aging structures in critical facilities, condition assessment of bridges, optimization of quality assurance of welded structures, optimal reliability based bridge maintenance planning, effective reanalysis for damaged structures, optimal design of transmission line structures, optimization and reliability, lifetime oriented design, and optimum policy for civil infrastructure improvement decision making. This book serves as a valuable reference to engineers and managers concerned with design and maintenance planning of civil infrastructure systems.

Optimization in Civil & Environmental Engineering Zong Woo Geem, 2012

Optimal Design and Control Jeff Borggaard, John Burkhardt, Max Gunzburger, Janet Peterson, 2012-12-06 This volume is the proceedings of the Workshop on Optimal Design and Control that was held in Blacksburg, Virginia, April 8-9, 1994. The workshop was sponsored by the Air Force Office of Scientific Research through the Air Force Center for Optimal Design and Control (CODAC) at Virginia Tech. The workshop was a gathering of engineers and mathematicians actively involved in innovative research in control and

optimization with emphasis placed on problems governed by partial differential equations. The interdisciplinary nature of the workshop and the wide range of subdisciplines represented by the participants enabled an exchange of valuable information and also led to significant discussions about multidisciplinary optimization issues. One of the goals of the workshop was to include laboratory industrial and academic researchers so that analyses, algorithms, implementations and applications could all be well represented in the talks. This interdisciplinary nature is reflected in these proceedings. An overriding impression that can be gleaned from the papers in this volume is the complexity of problems addressed by not only those authors engaged in applications but also by those engaged in algorithmic development and even mathematical analyses. Thus in many instances systematic approaches using fully nonlinear constraint equations are routinely used to solve control and optimization problems in some cases replacing ad hoc or empirically based procedures.

Frontier Technologies for Infrastructures Engineering Alfredo H.S. Ang, Shi-Shuenn Chen, 2009-04-21. An exclusive collection of papers introducing current and frontier technologies of special significance to the planning, design, construction and maintenance of civil infrastructures. This volume is intended for professional and practicing engineers involved with infrastructure systems such as roadways, bridges, buildings, power generating and distribution systems.

Structural Sensitivity Analysis and Optimization 2 K. K. Choi, Nam-Ho Kim, 2006-12-22. Extensive numerical methods for computing design sensitivity are included in the text for practical application and software development. The numerical method allows integration of CAD/FEA/DSA software tools so that design optimization can be carried out using CAD geometric models instead of FEA models. This capability allows integration of CAD/CAE/CAM so that optimized designs can be manufactured effectively.

Advances in Metaheuristic Algorithms for Optimal Design of Structures A. Kaveh, 2016-11-09. This book presents efficient metaheuristic algorithms for optimal design of structures. Many of these algorithms are developed by the author and his colleagues, consisting of Democratic Particle Swarm Optimization, Charged System Search, Magnetic Charged System Search, Field of Forces Optimization, Dolphin Echolocation Optimization, Colliding Bodies Optimization, Ray Optimization. These are presented together with algorithms which were developed by other authors and have been successfully applied to various optimization problems. These consist of Particle Swarm Optimization, Big Bang/Big Crunch Algorithm, Cuckoo Search Optimization, Imperialist Competitive Algorithm and Chaos Embedded Metaheuristic Algorithms. Finally, a multi-objective optimization method is presented to solve large-scale structural problems based on the Charged System Search algorithm. The concepts and algorithms presented in this book are not only applicable to optimization of skeletal structures and finite element models but can equally be utilized for optimal design of other systems such as hydraulic and electrical networks. In the second edition, seven new chapters are added, consisting of the new developments in the field of optimization. These chapters consist of the Enhanced Colliding Bodies Optimization, Global Sensitivity Analysis, Tug of War Optimization, Water Evaporation Optimization, Vibrating Particle System Optimization and Cyclical Parthenogenesis Optimization algorithms. A chapter is also

devoted to optimal design of large scale structures *Reliability and Optimization of Structural Systems* Rudiger Rackwitz,Guiliano Augusti,Antonio Borri,2013-06-05 The 6th meeting sponsored by IFIP Working Group 7.5 on reliability and optimization of structural systems took place in September 1994 in Assisi Italy This book contains the papers presented at the working conference including topics such as reliability of special structures fatigue failure modes and time variant systems reliability

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