

Conception Optimale De Structures

Conception optimale de structures Grégoire Allaire 2006-10-12 Conception optimale des structures est une introduction à la conception optimale de structures, appelée aussi optimisation de formes. Il est principalement destiné à un public mixte de mathématiciens appliqués et de mécaniciens que relie un même intérêt pour les applications numériques.

Berichte Der Arbeitskommissionen 1973

SIAM Journal on Control and Optimization Society for Industrial and Applied Mathematics 2007
Computational Science for the 21st Century M-O. Bristeau 1997-04-30 Computational science can loosely be defined as the endeavor to develop and analyse models for the simulation and control of complex processes. This is achieved by making optimal use of computer resources and by drawing upon a variety of disciplines, techniques and theories. With the emergence of advanced computational and information technologies, computational science now has a significant impact on engineering, physical, biological, management and social sciences. The contributions in this state-of-the-art volume range from theoretical and numerical topics to practical implementations. The subject matter includes modelling, mathematical and numerical analysis, differential equations, linear algebra, optimization, domain decomposition, computational fluid dynamics, computational mechanics, elasticity, structure, computational physics and chemistry, electromagnetic, control theory and other applications. This volume is dedicated to Roland Glowinski on the occasion of his 60th birthday. It is aimed at the next generation of scientists, applied mathematicians, computer scientists, practitioners and engineers who will define computational science within the context of the challenging scientific, industrial, economic and societal problems of the 21st century.

Mathematical Reviews 2008

RAIRO, Mathematical modelling and numerical analysis 1998

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Annual Report Danish Center for Applied Mathematics and Mechanics 1986

Control of Partial Differential Equations Alfredo Bermudez 1989 Conference on Optimal Control of Systems

Routes Et Développement L'Ecole Nationale des Ponts et Chaussées 1984

Ammonia Refrigeration Technology 2009 Topics include the design of modern ammonia systems and technological innovation, improving energy efficiency, various applications, technical guidelines and safety regulations. By using more ammonia refrigeration, we are employing environmentally friendly technology.

Continuous Surveillance of Reactor Coolant Circuit Integrity OECD Nuclear Energy Agency. Committee on the Safety of Nuclear Installations 1986

Conception optimale de structures Grégoire Allaire 2006-11-02 Conception optimale des structures est une introduction à la conception optimale de structures, appelée aussi optimisation de formes. Il est principalement destiné à un public mixte de mathématiciens appliqués et de mécaniciens que relie un même intérêt pour les applications numériques.

Advances in Structural Optimization B. H. V. Topping 1994 Includes a selection of papers that were presented at the Second International Conference on Computational Structures Technology, held in Athens, Greece, from 30 August - 1 September 1994.

Direct Methods for Limit and Shakedown Analysis of Structures Paolo Fuschi 2015-01-06 Articles in this book examine various materials and how to determine directly the limit state of a structure, in the sense of limit analysis and shakedown analysis. Apart from classical applications in mechanical and civil engineering contexts, the book reports on the emerging field of material design beyond the elastic limit, which has further industrial design and technological applications. Readers will discover that "Direct Methods" and the techniques presented here can in fact be used to numerically estimate the strength of structured materials such as composites or nano-materials, which represent fruitful fields of future applications. Leading researchers outline the latest computational tools and optimization techniques and

explore the possibility of obtaining information on the limit state of a structure whose post-elastic loading path and constitutive behavior are not well defined or well known. Readers will discover how Direct Methods allow rapid and direct access to requested information in mathematically constructive manners without cumbersome step-by-step computation. Both researchers already interested or involved in the field and practical engineers who want to have a panorama of modern methods for structural safety assessment will find this book valuable. It provides the reader with the latest developments and a significant amount of references on the topic.

Advances in Structural Optimization J. Herskovits 2012-12-06 Advances in Structural Optimization presents the techniques for a wide set of applications, ranging from the problems of size and shape optimization (historically the first to be studied) to topology and material optimization. Structural models are considered that use both discrete and finite elements. Structural materials can be classical or new. Emerging methods are also addressed, such as automatic differentiation, intelligent structures optimization, integration of structural optimization in concurrent engineering environments, and multidisciplinary optimization. For researchers and designers in industries such as aerospace, automotive, mechanical, civil, nuclear, naval and offshore. A reference book for advanced undergraduate or graduate courses on structural optimization and optimum design.

Canadian Journal of Civil Engineering 1993

Free and Moving Boundaries Roland Glowinski 2007-06-06 Addressing algebraic problems found in biomathematics and energy, Free and Moving Boundaries: Analysis, Simulation and Control discusses moving boundary and boundary control in systems described by partial differential equations (PDEs). With contributions from international experts, the book emphasizes numerical and theoretical control of moving boundaries. *New Trends in Shape Optimization* Aldo Pratelli 2015-12-01 This volume reflects "New Trends in Shape Optimization" and is based on a workshop of the same name organized at the Friedrich-Alexander University Erlangen-Nürnberg in September 2013. During the workshop senior mathematicians and young scientists alike presented their latest findings. The format of the meeting allowed fruitful discussions on challenging open problems, and triggered a number of new and spontaneous collaborations. As such, the idea was born to produce this book, each chapter of which was written by a workshop participant, often with a collaborator. The content of the individual chapters ranges from survey papers to original articles; some focus on the topics discussed at the Workshop, while others involve arguments outside its scope but which are no less relevant for the field today. As such, the book offers readers a balanced introduction to the emerging field of shape optimization.

Multiphysics Modelling and Simulation for Systems Design and Monitoring Mohamed Haddar 2015-01-03 This book reports on the state of the art in the field of multiphysics systems. It consists of accurately reviewed contributions to the MMSSD'2014 conference, which was held from December 17 to 19, 2004 in Hammamet, Tunisia. The different chapters, covering new theories, methods and a number of case studies, provide readers with an up-to-date picture of multiphysics modeling and simulation. They highlight the role played by high-performance computing and newly available software in promoting the study of multiphysics coupling effects, and show how these technologies can be practically implemented to bring about significant improvements in the field of design, control and monitoring of machines. In addition to providing a detailed description of the methods and their applications, the book also identifies new research issues, challenges and opportunities, thus providing researchers and practitioners with both technical information to support their daily work and a new source of inspiration for their future research.

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