

Introduction to the Special Issue on Recent Developments of Isogeometric Analysis and Its Applications in Structural Optimization

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Isogeometric analysis (IGA), which aims at integrating CAD and CAE models, is one of the most active research topics in both computational mechanics and computer-aided geometric design. The rapidly growing interests in IGA has led to profound developments of relevant theories and applications, one of which being structural optimization. With the rapid growth of researches in IGA, this special issue contributes to highlight recent developments, challenges and opportunities of IGA and IGA-based structural design optimization, with focuses on theory development, numerical implementations and potential applications.

This special issue is organized by six guest editors who have made important contributions in the field of IGA and IGA-based design and structural optimization. There are 13 papers accepted after a critical peer review process. The topics include analysis-suitable parameterization methods, isogeometric shape and topology optimization, multiscale isogeometric structural optimization, and others.

We summarize the accepted papers in this special issue as follows:

In the paper entitled "Data-driven structural design for petal-shaped auxetics using isogeometric analysis" by Wang et al. [1], the authors propose a back-propagation neural network (BPNN) based design framework for petal-shaped auxetics using IGA. The BPNN-based fitting method is used to build the nonlinear relation between the input geometry variables and the effective material properties, which enable an easy analytical sensitivity analysis, in contrast to the generally complex procedures of typical shape and size sensitivity approaches.

Wu et al. [2] present an approach to reuse the basis function evaluations in the numerical integration of IGA in the paper entitled "Reusing the evaluations of basis functions in the integration for isogeometric analysis". The authors classify the bases on the original level and then reuse them on the refined level, which can reduce the time for basis calculations at integration nodes. By using the sum factorization method and the mean value theorem for the integrals, an integration method with high efficiency is proposed.

In the paper "Multiresolution isogeometric topology optimization using moving morphable voids" studied by Du et al. [3], a general and new explicit isogeometric topology optimization approach with moving morphable voids (MMV) is proposed. In this approach, a novel multiresolution scheme with two



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Structural Optimization Ovadia E. Lev, 1981 *Applied Mechanics Reviews*, 1974 **Mechanics of Composite Materials** Zvi Hashin, Carl T. Herakovich, 2013-10-22 *Mechanics of Composite Materials Recent Advances* covers the proceedings of the International Union of Theoretical and Applied Mechanics IUTAM Symposium on Mechanics of Composite Materials. The book reviews papers that emphasize fundamental mechanics developments and unresolved problems of the field. The text covers topics such as mechanical properties of composite materials, influence of microstructure on the thermoplastics and transport properties of particulate and short fiber composites and further applications of the systematic theory of materials with disordered constitution. The selection also explains the curved thermal crack growth in the interface of a unidirectional carbon aluminum composite and energy release rates of various microcracks in short fiber composites. The book will be of great interest to researchers and professionals whose line of work requires the understanding of the mechanics of composite materials.

Recent Developments and the New Direction in Soft-Computing Foundations and Applications Shahnaz N. Shahbazova, Janusz Kacprzyk, Valentina Emilia Balas, Vladik Kreinovich, 2020-07-10 This book gathers authoritative contributions in the field of Soft Computing. Based on selected papers presented at the 7th World Conference on Soft Computing which was held on May 29-31, 2018 in Baku, Azerbaijan, it describes new theoretical advances as well as cutting edge methods and applications. New theories and algorithms in fuzzy logic, cognitive modeling, graph theory and metaheuristics are discussed and applications in data mining, social networks, control and robotics, geoscience, biomedicine and industrial management are described. This book offers a timely broad snapshot of recent developments including thought provoking trends and challenges that are yielding new research directions in the diverse areas of Soft Computing.

Topology Design of Structures Martin P. Bendsøe, Carlos A. Mota Soares, 2012-12-06 *Proceedings of the NATO Advanced Research Workshop* Sesimbra, Portugal, June 20-26, 1992 *Research in Structures and Dynamics*, 1984, 1984 **Analytic Methods for Design Practice** Gyung-Jin Park, 2007-05-31 In the competitive world of modern engineering, rigorous and definite design methodologies are needed. However, many parts of engineering design are performed in either an ad hoc manner or based on the intuition of the engineer. This is the first book to look at both stages of the design process: conceptual design and detailed design, and detail design methodologies for every step of the design process. The following analytic design methodologies are introduced and their usefulness is explored with many mathematical and practical examples: Axiomatic design, Optimization, Design of experiments, Robust design, Structural optimization, Dynamic response optimization and Multidisciplinary optimization. Case studies show how practical design problems can be solved with analytic design methods. Students will find this book an excellent introduction to the subject. The book's practical focus will interest practising engineers as a practical handbook of design.

Scientific and Technical Aerospace Reports, 1989 **Recent Developments in Durability Analysis of Composite Systems** H. Dardon, H. Fukuda, K.L. Reifsnider, G.

Verchery,2022-01-26 The papers from these proceedings address experimental and analytical methods for the characterization and analysis of modern composite and adhesive systems They have been produced to provide understanding that can be used to design safe reliable engineering components

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 dis

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