

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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Table of Contents Structural Optimization Recent Developments And Applications

1. Understanding the eBook Structural Optimization Recent Developments And Applications
 - The Rise of Digital Reading Structural Optimization Recent Developments And Applications
 - Advantages of eBooks Over Traditional Books
2. Identifying Structural Optimization Recent Developments And Applications
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Structural Optimization Recent Developments And Applications
 - User-Friendly Interface
4. Exploring eBook Recommendations from Structural Optimization Recent Developments And Applications
 - Personalized Recommendations
 - Structural Optimization Recent Developments And Applications User Reviews and Ratings
 - Structural Optimization Recent Developments And Applications and Bestseller Lists

5. Accessing Structural Optimization Recent Developments And Applications Free and Paid eBooks
 - Structural Optimization Recent Developments And Applications Public Domain eBooks
 - Structural Optimization Recent Developments And Applications eBook Subscription Services
 - Structural Optimization Recent Developments And Applications Budget-Friendly Options
6. Navigating Structural Optimization Recent Developments And Applications eBook Formats
 - ePub, PDF, MOBI, and More
 - Structural Optimization Recent Developments And Applications Compatibility with Devices
 - Structural Optimization Recent Developments And Applications Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Structural Optimization Recent Developments And Applications
 - Highlighting and Note-Taking Structural Optimization Recent Developments And Applications
 - Interactive Elements Structural Optimization Recent Developments And Applications
8. Staying Engaged with Structural Optimization Recent Developments And Applications
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Structural Optimization Recent Developments And Applications
9. Balancing eBooks and Physical Books Structural Optimization Recent Developments And Applications
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Structural Optimization Recent Developments And Applications
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Structural Optimization Recent Developments And Applications
 - Setting Reading Goals Structural Optimization Recent Developments And Applications
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Structural Optimization Recent Developments And Applications
 - Fact-Checking eBook Content of Structural Optimization Recent Developments And Applications
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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