

Modern numerical methods and their applications in mechanical engineering

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Numerical simulation is a powerful tool to solve scientific and engineering problems. It plays an important role in many aspects of fundamental research and engineering applications, for example, mechanism of turbulent flow with/without viscoelastic additives, optimization of processes, prediction of oil/gas production, and online control of manufacturing. The soul of numerical simulation is numerical method, which is driven by the above demands and in return pushes science and technology by the successful applications of advanced numerical methods. With the development of mathematical theory and computer hardware, various numerical methods are proposed. The new numerical methods or their new applications lead to important progress in the related fields. For example, parallel computing largely promotes the precision of direct numerical simulations of turbulent flow to capture undiscovered flow structures. Proper orthogonal decomposition method greatly reduces the simulation time of oil pipelining transportation. The development of commercial computational fluid dynamics (CFD) software also depends on the advancement of numerical methods. Thus, numerical methods become more and more important and their modern developments are worth exploring.

To reflect the frontier researches in numerical methods with applications, this special collection was established with the editorial team members from China, Italy, USA, and Norway. The guest editors are from both universities and industrial companies. The high quality and diversity of the editorial team members ensure the special issue collected 22 high-quality articles, from China, USA, Czech Republic, Turkey, Saudi Arabia, Korea, Vietnam, and India, providing a state-of-the-art insight to the specific topics including solid mechanics, fluid mechanics, optimization, and system stability.

In the article "Mechanical and failure characteristics of rock-like material with multiple crossed joint sets under uniaxial compression," Bonded-Particle Model

(BPM) using PFC3D is used to explore the effect of joint sets number and joint spacing on the mechanical behavior of a jointed rock mass under uniaxial compression. Stress concentration is found to be the reason for relatively lower strength of blocks with crossed joint sets compared to the block with the same weakest joint set. The results are helpful to reveal the mechanism of damage and fracture of jointed rocks under uniaxial compression.

In the article "Discrete element method simulations of load behavior with mono-sized iron ore particles in a ball mill," the sphere-clump method is employed to determine the geometrical shape of the mono-sized iron ore particles. Through discrete element method simulations, the impact of mill speed and lifter on the load behavior of iron ore particles in a ball mill not only potentially facilitates the improvement in high-performance liners but also optimizes the mill speed in the pre-design stage.

In the article "Lumped parameter model and numerical model of vapor bubble-driven valve-less micropump," a lumped parameter model for a vapor bubble-driven valve-less micropump is established and validated by the numerical simulation using ANSYS Fluent, in terms of bubble dynamics and flow performance. The results indicate that the lumped parameter model can be a convenient tool to guide the design of the micropumps.

In the article "On effect of viscoelastic characteristics of polymers on performance of micropump," a numerical modeling of polydimethylsiloxane (PDMS) micropump behavior using the fluid-structure interaction (FSI) along with viscoelastic material is demonstrated to capture FSIs accurately. The simulations can be extended for analysis of PDMS-based check-valve micropumps and other lab-on-a-chip devices under dynamic loading.

In the article "Applications of the discontinuous Galerkin method to propagating acoustic wave



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RS Peters



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Table of Contents Applications Of Numerical Methods In Mechanical Engineering

1. Understanding the eBook Applications Of Numerical Methods In Mechanical Engineering
 - The Rise of Digital Reading Applications Of Numerical Methods In Mechanical Engineering
 - Advantages of eBooks Over Traditional Books
2. Identifying Applications Of Numerical Methods In Mechanical Engineering
 - 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 Applications Of Numerical Methods In Mechanical Engineering
 - User-Friendly Interface
4. Exploring eBook Recommendations from Applications Of Numerical Methods In Mechanical Engineering

- Personalized Recommendations
- Applications Of Numerical Methods In Mechanical Engineering User Reviews and Ratings
- Applications Of Numerical Methods In Mechanical Engineering and Bestseller Lists
- 5. Accessing Applications Of Numerical Methods In Mechanical Engineering Free and Paid eBooks
 - Applications Of Numerical Methods In Mechanical Engineering Public Domain eBooks
 - Applications Of Numerical Methods In Mechanical Engineering eBook Subscription Services
 - Applications Of Numerical Methods In Mechanical Engineering Budget-Friendly Options
- 6. Navigating Applications Of Numerical Methods In Mechanical Engineering eBook Formats
 - ePub, PDF, MOBI, and More
 - Applications Of Numerical Methods In Mechanical Engineering Compatibility with Devices
 - Applications Of Numerical Methods In Mechanical Engineering Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Applications Of Numerical Methods In Mechanical Engineering
 - Highlighting and Note-Taking Applications Of Numerical Methods In Mechanical Engineering
 - Interactive Elements Applications Of Numerical Methods In Mechanical Engineering
- 8. Staying Engaged with Applications Of Numerical Methods In Mechanical Engineering
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Applications Of Numerical Methods In Mechanical Engineering
- 9. Balancing eBooks and Physical Books Applications Of Numerical Methods In Mechanical Engineering
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Applications Of Numerical Methods In Mechanical Engineering
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Applications Of Numerical Methods In Mechanical Engineering
 - Setting Reading Goals Applications Of Numerical Methods In Mechanical Engineering
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Applications Of Numerical Methods In Mechanical Engineering

- Fact-Checking eBook Content of Applications Of Numerical Methods In Mechanical Engineering
 - 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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