Advanced Numerical Simulations in Mechanical Engineering
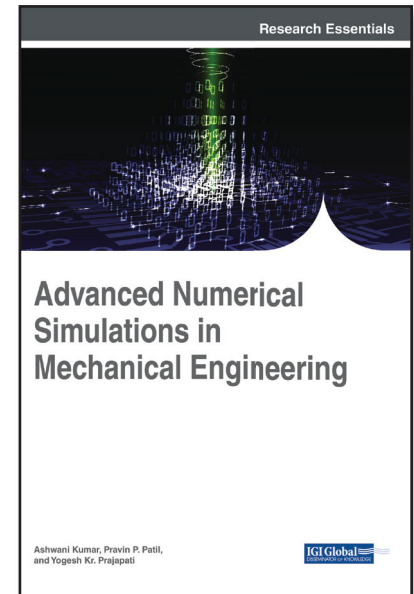
Part of the Advances in Mechatronics and Mechanical Engineering Book Series

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Description:

Recent developments in information processing systems have driven the advancement of numerical simulations in engineering. New models and simulations enable better solutions for problem-solving and overall process improvement.

Advanced Numerical Simulations in Mechanical Engineering is a pivotal reference source for the latest research findings on advanced modelling and simulation method adopted in mechanical and mechatronics engineering. Featuring extensive coverage on relevant areas such as fuzzy logic controllers, finite element analysis, and analytical models, this publication is an ideal resource for students, professional engineers, and researchers interested in the application of numerical simulations in mechanical engineering.

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Topics Covered:

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- Dynamic Systems
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- Finite Element Analysis
- Free-Body-Diagram
- Fuzzy Logic Controller
- Model Development

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