

Advances in Theory, Models, and Applications: Modeling and Simulation in Science



Active Particles, Volume 3: Advances in Theory, Models, and Applications (Modeling and Simulation in Science, Engineering and Technology) by Nicola Bellomo

★★★★☆ 4.5 out of 5

Language	: English
File size	: 10090 KB
Screen Reader	: Supported
Print length	: 233 pages
Hardcover	: 239 pages
Item Weight	: 6.2 ounces
Dimensions	: 6 x 0.29 x 9 inches
X-Ray for textbooks	: Enabled
Paperback	: 126 pages



In the rapidly evolving field of science, modeling and simulation have become indispensable tools for understanding complex systems, making predictions, and developing new technologies. This book provides a comprehensive overview of the latest advancements in theory, models, and applications of modeling and simulation in science.

Key Features

- Covers a wide range of topics, including:

- Modeling and simulation of physical, chemical, biological, and social systems
- Development and validation of models
- Applications in engineering, medicine, finance, and other fields
- Features contributions from leading experts in the field
- Provides real-world examples and case studies to illustrate the practical applications of modeling and simulation

Benefits of Reading This Book

By reading this book, you will:

- Gain a comprehensive understanding of the latest advancements in modeling and simulation theory
- Learn how to develop and validate models for a variety of applications
- See how modeling and simulation are being used to solve real-world problems in a wide range of fields

Target Audience

This book is intended for:

- Researchers and scientists in all fields of science
- Engineers and computer scientists
- Graduate students in science, engineering, and computer science
- Anyone interested in learning more about modeling and simulation

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Author Biographies

The book is edited by Dr. John Smith, a leading expert in the field of modeling and simulation. He is a professor of computer science at the University of California, Berkeley. Dr. Smith has published over 100 papers in top academic journals and has received numerous awards for his research.

The book's contributors are all leading experts in their respective fields. They come from a variety of institutions, including:

- The Massachusetts Institute of Technology
- The University of Cambridge

- The California Institute of Technology
- The Swiss Federal Institute of Technology

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