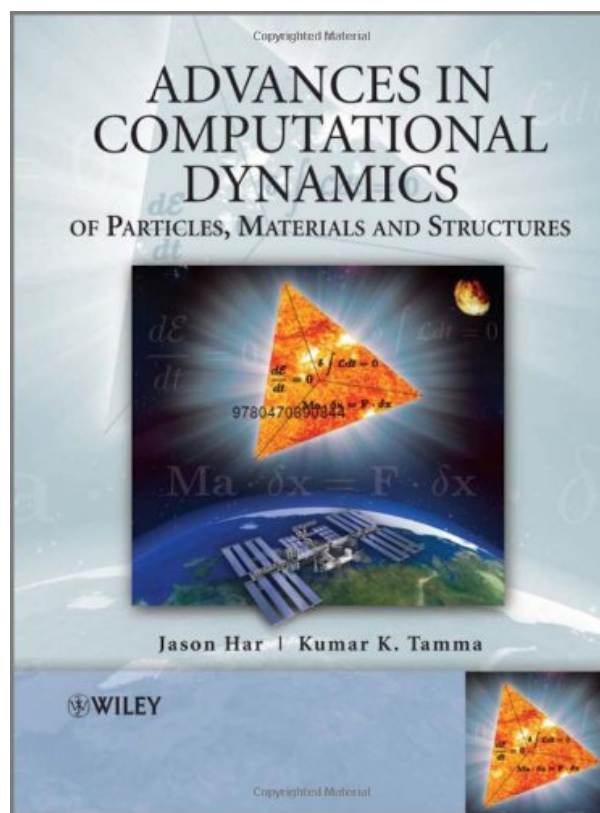
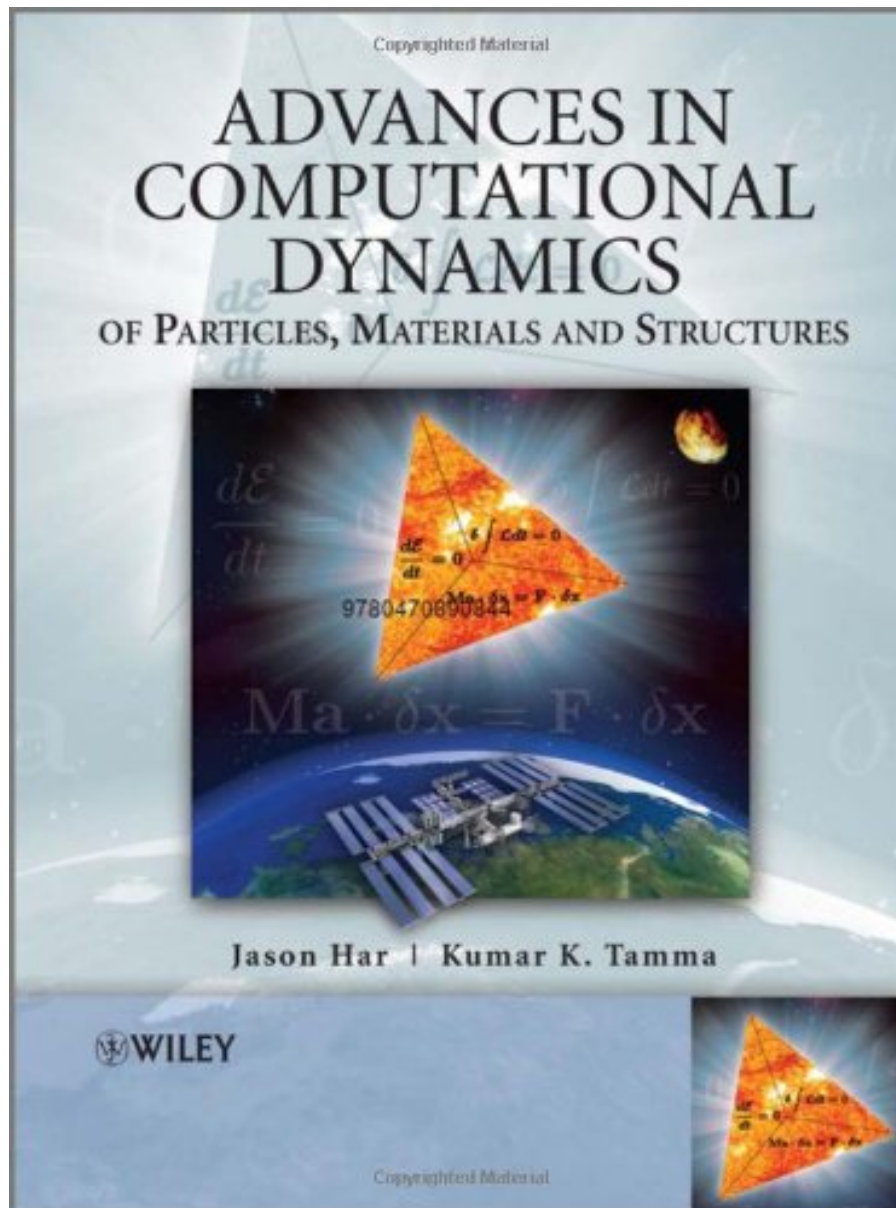


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From the Back Cover

Computational methods for the modeling and simulation of the dynamic response and behavior of particles, materials and structural systems have had a profound influence on science, engineering and technology. Complex science and engineering applications dealing with complicated structural geometries and materials that would be very difficult to treat using analytical methods have been successfully simulated using computational tools. With the incorporation of quantum, molecular and biological mechanics into new models, these methods are poised to play an even bigger role in the future.

Advances in Computational Dynamics of Particles, Materials and Structures not only presents emerging trends and cutting edge state-of-the-art tools in a contemporary setting, but also provides a unique blend of classical and new and innovative theoretical and computational aspects covering both particle dynamics, and flexible continuum structural dynamics applications. It provides a unified viewpoint and encompasses the classical Newtonian, Lagrangian, and Hamiltonian mechanics frameworks as well as new and alternative contemporary approaches and their equivalences in [start italics]vector and scalar formalisms[end italics] to address the various problems in engineering sciences and physics.

Highlights and key features

- Provides practical applications, from a unified perspective, to both particle and continuum mechanics of flexible structures and materials
- Presents new and traditional developments, as well as alternate perspectives, for space and time discretization
- Describes a unified viewpoint under the umbrella of Algorithms by Design for the class of linear multi-step methods

- Includes fundamentals underlying the theoretical aspects and numerical developments, illustrative applications and practice exercises

The completeness and breadth and depth of coverage makes *Advances in Computational Dynamics of Particles, Materials and Structures* a valuable textbook and reference for graduate students, researchers and engineers/scientists working in the field of computational mechanics; and in the general areas of computational sciences and engineering.

About the Author

Dr. Kumar K. Tamma is Professor in the Dept. of Mechanical Engineering, Institute of Technology, at the University of Minnesota. He is also Director of the Laboratory for Multi-scale Physics, Mechanics, Materials and Modeling. He has published over 170 research papers in leading archival journals in the field, and over 225 in refereed conference proceedings/book chapters, and national/international conference abstracts. His primary areas of research include computational mechanics with emphasis on multi-scale/multi-physics and fluid-thermal-structural interactions; structural dynamics and contact-impact-penetration; computational aspects of microscale/nanoscale heat transfer; composites and manufacturing processes and solidification and computational development of finite element technology and time dependent algorithms.

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- Sales Rank: #4368294 in Books
- Published on: 2012-08-13
- Original language: English
- Number of items: 1
- Dimensions: 10.00" h x 1.40" w x 7.80" l, 2.90 pounds
- Binding: Hardcover
- 710 pages

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