Application of Nonlinear Systems in Nanomechanics and Nanofluids. Micro and Nano Technologies

Description: With Application of Nonlinear Systems in Nanomechanics and Nanofluids the reader gains a deep and practice-oriented understanding of nonlinear systems within areas of nanotechnology application as well as the necessary knowledge enabling the handling of such systems. The book helps readers understand relevant methods and techniques for solving nonlinear problems, and is an invaluable reference for researchers, professionals and PhD students interested in research areas and industries where nanofluidics and dynamic nano-mechanical systems are studied or applied. The book is useful in areas such as nanoelectronics and bionanotechnology, and the underlying framework can also be applied to other problems in various fields of engineering and applied sciences.

- Provides comprehensive coverage of nano-dynamical systems and their specialized processes and applications in the context of nonlinear differential equations and analytical methods
- Enables researchers and engineers to better model, interpret and control nanofluidics and other nano-dynamical systems and their application processes
- Explains nano-dynamical systems by means of describing 'real-life' application case studies

Contents:
1. Introduction to Nanomechanics, Nanofluid and Analytical and Numerical Methods for Solving Nonlinear Problems in Nanotechnology
2. Semi-Nonlinear Analysis in Carbon Nanotube
3. Cu-Water Nanofluid Flow
4. Heat Transfer in Nanofluidics
5. Thermal Properties for Nanoparticles
6. Natural, Mixed and Forced Convection in Nanofluids
7. Nanofluid Flow in Porous Medium
8. Nanofluid Flow in Magnetic Field
9. Electro Field flow in Nano-Fluidic Channels

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