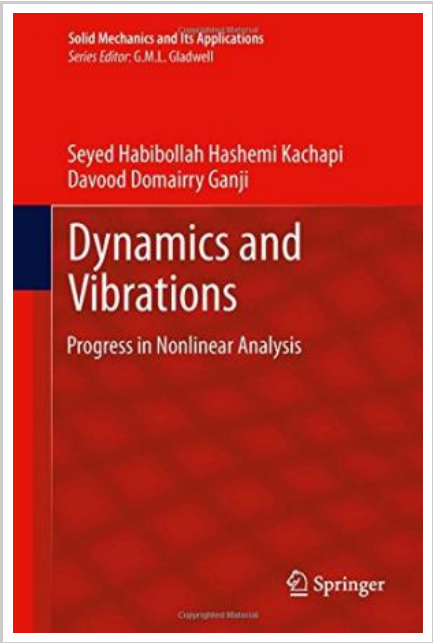

Dynamics and Vibrations: Progress in Nonlinear Analysis

By Davood Domairry Ganji

Springer. Hardcover. Book Condition: New. Hardcover. 338 pages. Dimensions: 9.2in. x 6.1in. x 1.0in.Dynamical and vibratory systems are basically an application of mathematics and applied sciences to the solution of real world problems. Before being able to solve real world problems, it is necessary to carefully study dynamical and vibratory systems and solve all available problems in case of linear and nonlinear equations using analytical and numerical methods. It is of great importance to study nonlinearity in dynamics and vibration; because almost all applied processes act nonlinearly, and on the other hand, nonlinear analysis of complex systems is one of the most important and complicated tasks, especially in engineering and applied sciences problems. There are probably a handful of books on nonlinear dynamics and vibrations analysis. Some of these books are written at a fundamental level that may not meet ambitious engineering program requirements. Others are specialized in certain fields of oscillatory systems, including modeling and simulations. In this book, we attempt to strike a balance between theory and practice, fundamentals and advanced subjects, and generality and specialization. None of the books in this area have completely studied and analyzed nonlinear equation in dynamical and vibratory systems using the latest...

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