



Nonlinear Approaches in Engineering Applications

By Liming Dai

Springer-Verlag GmbH Jun 2012, 2012. Buch. Book Condition: Neu. 244x167x35 mm. Neuware - Nonlinear Approaches in Engineering Applications focuses on nonlinear phenomena that are common in the engineering field. The nonlinear approaches described in this book provide a sound theoretical base and practical tools to design and analyze engineering systems with high efficiency and accuracy and with less energy and downtime. Presented here are nonlinear approaches in areas such as dynamic systems, optimal control and approaches in nonlinear dynamics and acoustics. Coverage encompasses a wide range of applications and fields including mathematical modeling and nonlinear behavior as applied to microresonators, nanotechnologies, nonlinear behavior in soil erosion, nonlinear population dynamics, and optimization in reducing vibration and noise as well as vibration in triple-walled carbon nanotubes. This book also: Provides a complete introduction to nonlinear behavior of systems and the advantages of nonlinearity as a tool for solving engineering problems Includes applications and examples drawn from the electronics, power, environmental and nanotechnology fields Discusses nonlinear approaches in areas such as dynamic systems and control, optimal control and approaches in nonlinear dynamics and acoustics Nonlinear Approaches in Engineering Applications is an ideal book for engineers, scientists, researchers, engineering and physics students at the undergraduate and graduate...

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