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Synopsis. An eminent electrical engineer and authority on linear system theory presents this advanced treatise, which approaches the subject from the viewpoint of classical dynamics and covers Fourier methods. This volume will assist upper-level undergraduates and graduate students in moving from introductory courses toward an understanding of advanced network synthesis. 1963 edition.

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An eminent electrical engineer presents this advanced treatise, which approaches the subject from the viewpoint of classical dynamics and covers Fourier methods. Suitable for upper-level undergraduates and graduate students. 1963 edition.

An eminent electrical engineer and authority on linear system theory presents this advanced treatise, which approaches the subject from the viewpoint of classical dynamics and covers Fourier methods. This volume will assist upper-level undergraduates and graduate students in moving from introductory courses toward an understanding of advanced network synthesis. 1963 edition.

Bringing together 18 chapters written by leading experts in dynamical systems, operator theory, partial differential equations, and solid and fluid mechanics, this book presents state-of-the-art approaches to a wide spectrum of new and challenging stability problems. Nonlinear Physical Systems: Spectral Analysis, Stability and Bifurcations focuses on problems of spectral analysis, stability and bifurcations arising in the nonlinear partial differential equations of modern physics. Bifurcations and stability of solitary waves, geometrical optics stability analysis in hydro- and magnetohydrodynamics, and dissipation-induced instabilities are treated with the use of the theory of Krein and Pontryagin space, index theory, the theory of multi-parameter eigenvalue problems and modern asymptotic and perturbative approaches. Each chapter contains mechanical and physical examples, and the combination of advanced material and more tutorial elements makes this book attractive for both experts and non-specialists keen to expand their knowledge on modern methods and trends in stability theory. Contents 1. Surprising Instabilities of Simple Elastic Structures, Davide Bigoni, Diego Misseroni, Giovanni Noselli and Daniele Zaccaria. 2. WKB Solutions Near an Unstable Equilibrium and Applications, Jean-François Bony, Setsuro Fujii, Thierry Ramond and Maher Zerzeri, partially supported by French ANR project NOSEVOL. 3. The Sign Exchange Bifurcation in a Family of Linear Hamiltonian Systems, Richard Cushman, Johnathan Robbins and Dimitrii Sadovskii. 4. Dissipation Effect on Local and Global Fluid-Elastic Instabilities, Olivier Doaré. 5. Tunneling, Librations and Normal Forms in a Quantum Double Well with a Magnetic Field, Sergey Yu. Dobrokhotov and Anatoly Yu. Nikin. 6. 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Since 2013 he has served as an Associate Editor for the journal Frontiers in Mathematical Physics. Dmitry E. Pelinovsky has been Professor at McMaster University in Canada since 2000. His research profile includes work with nonlinear partial differential equations, discrete dynamical systems, spectral theory, integrable systems, and numerical analysis. He served as the guest editor of the special issue of the journals Chaos in 2005 and Applicable Analysis in 2010. He is an Associate Editor of the journal Communications in Nonlinear Science and Numerical Simulations. This book is devoted to the problems of spectral analysis, stability and bifurcations arising from the nonlinear partial differential equations of modern physics. Leading experts in dynamical systems, operator theory, partial differential equations, and solid and fluid mechanics present state-of-the-art approaches to a wide spectrum of new challenging stability problems. Bifurcations and stability of solitary waves, geometrical optics stability analysis in hydro- and magnetohydrodynamics and dissipation-induced instabilities will be treated with the use of the theory of Krein and Pontryagin space, index theory, the theory of multi-parameter eigenvalue problems and modern asymptotic and perturbative approaches. All chapters contain mechanical and physical examples and combine both tutorial and advanced sections, making them attractive both to experts in the field and non-specialists interested in knowing more about modern methods and trends in stability theory.

Although comprehensive knowledge of cyber-physical systems (CPS) is becoming a must for researchers, practitioners, system designers, policy makers, system managers, and administrators, there has been a need for a comprehensive and up-to-date source of research and information on cyber-physical systems. This book fills that need. Cyber-Physical Systems: From Theory to Practice provides state-of-the-art research results and reports on emerging trends related to the science, technology, and engineering of CPS, including system architecture, development, modeling, simulation, security, privacy, trust, and energy efficiency. It presents the research results of esteemed professionals on cutting-edge advances in cyber-physical systems that include communications, computing, and control. The book consists of eight sections, each containing chapters contributed by leading experts in the field. Each section covers a different area that impacts the design, modeling, and evaluation of CPS, including: Control systems Modeling and design Communications and signal processing Mobility issues Architecture Security issues Sensors and applications Computing issues The book's coverage includes cyber-physical system architecture, mobile cyber-physical systems, cyber-physical systems for intelligent (road/air) transportation, and cyber-physical system applications and standardization. With the CPS field advancing so rapidly, this book is an ideal reference to help researchers, system designers, and practitioners manufacture devices that are compatible with CPS standards. Presenting numerous examples that illustrate practical applications derived from theory, the book is also suitable for use as a textbook in upper undergraduate and graduate-level university courses.

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