

**DONALD D. WEINER
JOHN E. SPINA**

SINUSOIDAL ANALYSIS AND MODELING OF WEAKLY NONLINEAR CIRCUITS

With Application to Nonlinear Interference Effects



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Sinusoidal Analysis And Modeling Of Weakly Nonlinear Circuits With Application To Nonlinear Interference Effects

Donald D. Weiner, John F. Spina



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Condition Monitoring and Nonlinear Frequency Analysis Based Fault Detection of Mechanical Vibration

Systems Hogir Rafiq, 2023-08-26 Hogir Rafiq proposes two approaches the signal processing based condition monitoring approaches with applications to fault detection in gear systems and application of deep mathematical and system theoretical methods to fault detection The author develops the multivariate empirical mode decomposition MEMD algorithm to enhance the capability of extracting fault features and theoretical problems in nonlinear frequency analysis methods respectively The effectiveness has been demonstrated by an experimental study on a wind turbine gearbox test rig *Computer Methods for Analysis of Mixed-Mode Switching Circuits* Fei Yuan, Ajoy Opal, 2007-05-08 Computer Methods for Analysis of Mixed Mode Switching Circuits provides an in depth treatment of the principles and implementation details of computer methods and numerical algorithms for analysis of mixed mode switching circuits Major topics include Computer oriented formulation of mixed mode switching circuits Network functions of linear and nonlinear time varying systems Numerical Laplace inversion based integration algorithms and inconsistent initial conditions Time domain analysis of periodically switched linear and nonlinear circuits including response sensitivity noise clock jitter and statistical quantities Time domain analysis of circuits with internally controlled switches and over sampled sigma delta modulators Tellegen s theorem frequency reversal theorem and transfer function theorem of periodically switched linear circuits and their applications Frequency domain analysis of periodically switched linear and nonlinear circuits including response sensitivity group delay noise and statistical quantities

Interpolatory Methods for Model Reduction A. C. Antoulas, C. A. Beattie, S. Güercin, 2020-01-13 Dynamical systems are a principal tool in the modeling prediction and control of a wide range of complex phenomena As the need for improved accuracy leads to larger and more complex dynamical systems direct simulation often becomes the only available strategy for accurate prediction or control inevitably creating a considerable burden on computational resources This is the main context where one considers model reduction seeking to replace large systems of coupled differential and algebraic equations that constitute high fidelity system models with substantially fewer equations that are crafted to control the loss of fidelity that order reduction may induce in the system response Interpolatory methods are among the most widely used model reduction techniques and Interpolatory Methods for Model Reduction is the first comprehensive analysis of this approach available in a single extensive resource It introduces state of the art methods reflecting significant developments over the past two decades covering both classical projection frameworks for model reduction and data driven nonintrusive frameworks This textbook is appropriate for a wide audience of engineers and other scientists working in the general areas of large scale dynamical systems and data driven modeling of dynamics Modern Communications Receiver Design and Technology Cornell

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Engineering Electromagnetic Compatibility V. Prasad Kodali,2001-01-19 Electrical Engineering Engineering Electromagnetic Compatibility Principles Measurements Technologies and Computer Models Second Edition This practical enhanced second edition will teach you to avoid costly post design electromagnetic compatibility EMC fixes Once again V Prasad Kodali provides a comprehensive introduction to EMC and presents current technical information on sources of electromagnetic interference EMI EMC EMI measurements technologies to control EMI computer simulation and design and international EMC standards Features added to this second edition include Two new chapters covering EMC computer modeling and simulation and signal integrity Expanded assignments at the close of each chapter Illustrative examples that enhance comprehension Updated information in Selected Bibliography and EMC Standards chapters A new appendix that lists websites relevant to EMC EMI Engineering Electromagnetic Compatibility Second Edition is presented in a concise user friendly format that combines a rigorous solutions based mathematical treatment of the underlying theories of EMC with the most recent practical applications It is ideally suited as a desk reference for practicing engineers and as a textbook for students who need to understand the form and function of EMC and its relevance to a variety of systems

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