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Kai Chang, Series Editor

Microwave Noncontact Motion Sensing and Analysis



CHANGCHUO and JINSHIANG LIN

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Microwave Noncontact Motion Sensing And Analysis

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Microwave Noncontact Motion Sensing And Analysis:

Microwave Noncontact Motion Sensing and Analysis Changzhi Li,Jenshan Lin,2013-11-11 An authoritative guide to the theory technologies and state of the art applications in microwave noncontact sensing and analysis Engineering researchers have recently developed exciting advances in microwave noncontact sensing and analysis with new applications in fields ranging from medicine to structural engineering manufacturing to transportation This book provides an authoritative look at the current state of the art in the field Drawing upon their years of experience in both cutting edge research and industry applications the authors address microwave radar for both noncontact vital sign detection and mechanical movement measurement They explore key advances in everyday applications of microwave and Doppler radar especially in the areas of radio frequency technologies microelectronic fabrication processes and signal processing hardware and algorithms

Microwave Noncontact Motion Sensing and Analysis Reviews the theory and technical basics from electromagnetic propagation to signal processing Discusses all major types of motion sensing radar including Doppler pulse and FMCW Explores important advances in detection and analysis techniques Uses numerous case studies to illustrate current applications in an array of fields Provides integrated coverage of human vital sign detection through wall radar and Doppler vibrometry Offers a well informed look at emerging technologies and the shape of things to come An important resource for engineers and researchers with a professional interest in micro wave sensing technology Microwave Noncontact Motion Sensing and Analysis is also a source of insight and guidance for professionals in healthcare transportation safety the military and law enforcement

Radio Propagation and Adaptive Antennas for Wireless Communication Networks Nathan Blaunstein,Christos G. Christodoulou,2014-05-05 Radio Propagation and Adaptive Antennas for Wireless Communication Networks 2nd Edition presents a comprehensive overview of wireless communication system design including the latest updates to considerations of over the terrain atmospheric and ionospheric communication channels New features include the latest experimentally verified stochastic approach based on several multi parametric models all new chapters on wireless network fundamentals advanced technologies and current and modern multiple access networks and helpful problem sets at the conclusion of each chapter to enhance clarity The volume s emphasis remains on a thorough examination of the role of obstructions on the corresponding propagation phenomena that influence the transmission of radio signals through line of sight LOS and non line of sight NLOS propagation conditions along the radio path between the transmitter and the receiver antennas and how adaptive antennas used at the link terminals can be used to minimize the deleterious effects of such obstructions With its focus on 3G 4G MIMO and the latest wireless technologies Radio Propagation and Adaptive Antennas for Wireless Communication Networks represents an invaluable resource to topics critical to the design of contemporary wireless communication systems Explores novel wireless networks beyond 3G and advanced 4G technologies such as MIMO via propagation phenomena and the fundamentals of adapted antenna usage Explains how adaptive antennas can improve

GoS and QoS for any wireless channel with specific examples and applications in land aircraft and satellite communications Introduces new stochastic approach based on several multi parametric models describing various terrestrial scenarios which have been experimentally verified in different environmental conditions New chapters on fundamentals of wireless networks cellular and non cellular multiple access networks new applications of adaptive antennas for positioning and localization of subscribers Includes the addition of problem sets at the end of chapters describing fundamental aspects of wireless communication and antennas

Radio-Frequency Integrated-Circuit Engineering Cam Nguyen, 2015-03-16 Radio Frequency Integrated Circuit Engineering addresses the theory analysis and design of passive and active RFICs using Si based CMOS and Bi CMOS technologies and other non silicon based technologies The materials covered are self contained and presented in such detail that allows readers with only undergraduate electrical engineering knowledge in EM RF and circuits to understand and design RFICs Organized into sixteen chapters blending analog and microwave engineering Radio Frequency Integrated Circuit Engineering emphasizes the microwave engineering approach for RFICs Provides essential knowledge in EM and microwave engineering passive and active RFICs RFIC analysis and design techniques and RF systems vital for RFIC students and engineers Blends analog and microwave engineering approaches for RFIC design at high frequencies Includes problems at the end of each chapter

Passive Macromodeling Stefano Grivet-Talocia, Bjorn Gustavsen, 2015-10-19 Offers an overview of state of the art passive macromodeling techniques with an emphasis on black box approaches This book offers coverage of developments in linear macromodeling with a focus on effective proven methods After starting with a definition of the fundamental properties that must characterize models of physical systems the authors discuss several prominent passive macromodeling algorithms for lumped and distributed systems and compare them under accuracy efficiency and robustness standpoints The book includes chapters with standard background material such as linear time invariant circuits and systems basic discretization of field equations state space systems as well as appendices collecting basic facts from linear algebra optimization templates and signals and transforms The text also covers more technical and advanced topics intended for the specialist which may be skipped at first reading Provides coverage of black box passive macromodeling an approach developed by the authors Elaborates on main concepts and results in a mathematically precise way using easy to understand language Illustrates macromodeling concepts through dedicated examples Includes a comprehensive set of end of chapter problems and exercises Passive Macromodeling Theory and Applications serves as a reference for senior or graduate level courses in electrical engineering programs and to engineers in the fields of numerical modeling simulation design and optimization of electrical electronic systems Stefano Grivet Talocia PhD is an Associate Professor of Circuit Theory at the Politecnico di Torino in Turin Italy and President of IdemWorks Dr Grivet Talocia is author of over 150 technical papers published in international journals and conference proceedings He invented several algorithms in the area of passive macromodeling making them available through IdemWorks Bj rn Gustavsen PhD is a Chief Research Scientist in

Energy Systems at SINTEF Energy Research in Trondheim Norway More than ten years ago Dr Gustavsen developed the original version of the vector fitting method with Prof Semlyen at the University of Toronto The vector fitting method is one of the most widespread approaches for model extraction Dr Gustavsen is also an IEEE fellow **PTGAP international symposium** Institute of Electrical and Electronics Engineers. Professional Technical Group on Antennas and

Propagation,1973 **Electrical & Electronics Abstracts** ,1995 *Predicasts F & S Index United States* Predicasts, inc,1989 A comprehensive index to company and industry information in business journals **EDN** ,1990 **The Journal of the Acoustical Society of America** Acoustical Society of America,2006 **Foundry Management & Technology** ,1984 **Japanese Technical Abstracts** ,1988 **Dissertation Abstracts International** ,2008 **Food Manufacture Ingredient & Machinery Survey** ,1998 International Aerospace Abstracts ,1999 Chilton's I & C S ,1990-07

Thomas Register of American Manufacturers ,2003 Vols for 1970 71 includes manufacturers catalogs **Water Resources Research Catalog** ,1970 Beginning with vol 9 only new and continuing but modified projects are listed Vols 8 should be kept as a record of continuing but unchanged projects **Bioengineering Abstracts** ,1978 *Abstracts* Materials Research Society. Fall Meeting,1992 Power Transmission Design ,1991

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