DAVID M. POZAR

# MICROWAVE

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a radar system using the radar range equation its various parameters matched filter theory and Swerling target models The performance of various signal processors single pulse pulsed Doppler LFM NLFM and BPSK are discussed taking into account factors including MTI processing integration gain weighting loss and straddling loss The details of radar analysis are covered from a mathematical perspective with in depth breakdowns of radar performance in the presence of clutter Readers will be able to determine the nose temperature of a multi channel receiver as it is used in active arrays With the addition of three new chapters on moving target detectors inverse synthetic aperture radar ISAR and constant false alarm rate CFAR and new MATLAB codes this expanded second edition will appeal to the novice as well as the experienced practitioner

**Electromagnetics Explained** Ron Schmitt, 2002-05-13 Introduction and Survey of the Electromagnetic Spectrum Fundamentals of Electric Fields Fundamentals of Magnetic Fields Electrodynamics Radiation Relativity and Quantum Physics The Hidden Schematic Transmission Lines Waveguides and Shields Circuits as Guides for Waves and S Parameters Antennas How to Make Circuits That Radiate EMC Part I Basics Part II PCB Techniques Part III Cabling Lenses Dishes and Antenna Arrays Diffraction Frequency Dependence of Materials Thermal Radiation and Noise Electrical Engineering Book Recommendations Index Transmission Lines Richard Collier, 2013-03-14 This rigorous treatment of transmission lines presents all the essential concepts in a clear and straightforward manner Key principles are demonstrated by numerous practical worked examples and illustrations and complex mathematics is avoided throughout Early chapters cover pulse propagation sinusoidal waves and coupled lines all set within the context of a simple lossless equivalent circuit Later chapters then develop this basic model by demonstrating the derivation of circuit parameters and the use of Maxwell s equations to extend this theory to major transmission lines Finally a discussion of photonic concepts and properties provides valuable insights into the fundamental physics underpinning transmission lines Covering DC to optical frequencies this accessible text is an invaluable resource for students researchers and professionals in electrical RF and microwave engineering **Practical RF System Design** William F. Egan, 2004-03-01 The ultimate practical resource for today s RF system design professionals Radio frequency components and circuits form the backbone of today s mobile and satellite communications networks Consequently both practicing and aspiring industry professionals need to be able to solve ever more complex problems of RF design Blending theoretical rigor with a wealth of practical expertise Practical RF System Design addresses a variety of complex real world problems that system engineers are likely to encounter in today s burgeoning communications industry with solutions that are not easily available in the existing literature The author an expert in the field of RF module and system design provides powerful techniques for analyzing real RF systems with emphasis on some that are currently not well understood Combining theoretical results and models with examples he challenges readers to address such practical issues as How standing wave ratio affects system gain How noise on a local oscillator will affect receiver noise figure and desensitization How to determine the dynamic range of a cascade from module

specifications How phase noise affects system performance and where it comes from How intermodulation products IMs predictably change with signal amplitude and why they sometimes change differently An essential resource for today s RF system engineers the text covers important topics in the areas of system noise and nonlinearity frequency conversion and phase noise Along with a wealth of practical examples using MATLAB r and Excel spreadsheets are available for download from an FTP Web site to help readers apply the methods outlined in this important resource \*\*RF Circuit Design\*\* Reinhold Ludwig, Gene Bogdanov, 2009 This straightforward volume takes a distributed transmission line approach to RF circuit design with a focus on methodology fundamentals and minimal discussion of theoretical concepts The Second Edition introduces RF design tools such as the Smith Chart dual port networks S parameters and provides extensive coverage of RF filter design matching networks active and passive device modeling narrow and broadband amplifiers mixers and oscillators Approaches RF design from a circuit perspective so readers need little or no background in electromagnetic fields Prominently features key RF concepts in sidebars throughout the text For anyone interested in learning more about RF circuit design

Development of High-speed Optoelectronic Modulators John Jiang Yan, 2007 Microwave Engineering, Fourth Edition
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