

# CLASSIC WORKS IN RF ENGINEERING

COMBINERS, COUPLERS, TRANSFORMERS, AND  
MAGNETIC MATERIALS



JOHN L.B. WALKER  
DANIEL P. MYER  
FREDERICK H. RANS  
CHRIS TRASK  
EDITORS

**Classic Works In Rf Engineering Combiners Couplers  
Transformers And Magnetic Materials Artech House  
Microwave Library**

**Jin-Ying Zhang**



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*Integrated Circuit Design for High-speed Frequency Synthesis* John W. M. Rogers, Calvin Plett, Foster Dai, 2006 Get hands on expertise in the design of frequency synthesizers in high speed integrated circuits with this complete one stop resource packed with straight from the lab techniques procedures and applications It delivers a definitive introduction to system architecture and behavioral analysis Moreover you find detailed circuit implementation guidance for state of the art synthesizer designs emphasizing phase locked loop based analog synthesizers and direct digital synthesizers and their applications in CMOS and BiCMOS technologies

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**Joyce in the Belly of the Big Truck; Workbook** Joyce A. Cascio, 2005-05

Parallel Coupled Lines and Directional Couplers Leo Young, 1972

Handbook of RF and Microwave Power Amplifiers John L. B. Walker, 2011-10-13 Whether you are an RF transistor designer an amplifier designer or a system designer this is your one stop guide to RF and microwave transistor power amplifiers A team of expert authors brings you up to speed on every topic including devices Si LDMOS and VDMOS GaAs FETs GaN HEMTs circuit and amplifier design discrete hybrid and monolithic CAD thermal design reliability and system applications requirements for RF and microwave transistor amplifiers Covering state of the art developments and emphasising practical communications applications this is the complete professional reference on the subject

High Frequency Techniques Joseph F. White, 2016-08-03 This textbook is an introduction to microwave engineering The scope of this book extends from topics for a first course in electrical engineering in which impedances are analyzed using complex numbers through the introduction of transmission lines that

are analyzed using the Smith Chart and on to graduate level subjects such as equivalent circuits for obstacles in hollow waveguides analyzed using Green's Functions This book is a virtual encyclopedia of circuit design methods Despite the complexity topics are presented in a conversational manner for ease of comprehension The book is not only an excellent text at the undergraduate and graduate levels but is as well a detailed reference for the practicing engineer Consider how well informed an engineer will be who has become familiar with these topics as treated in High Frequency Techniques in order of presentation Brief history of wireless radio and the Morse code U S Radio Frequency Allocations Introduction to vectors AC analysis and why complex numbers and impedance are used Circuit and antenna reciprocity Decibel measure Maximum power transfer Skin effect Computer simulation and optimization of networks LC matching of one impedance to another Coupled Resonators Uniform transmission lines for propagation VSWR return Loss and mismatch error The Telegrapher Equations derived Phase and Group Velocities The Impedance Transformation Equation for lines derived Fano's and Bode's matching limits The Smith Chart derived Slotted Line impedance measurement Constant Q circles on the Smith Chart Approximating a transmission line with lumped L's and C's ABCD Z Y and Scattering matrix analysis methods for circuits Statistical Design and Yield Analysis of products Electromagnetic Fields Gauss's Law Vector Dot Product Divergence and Curl Static Potential and Gradient Ampere's Law and Vector Curl Maxwell's Equations and their visualization The Laplacian Rectangular cylindrical and spherical coordinates Skin Effect The Wave Equation The Helmholtz Equations Plane Propagating Waves Rayleigh Fading Circular elliptic Polarization Poynting's Theorem EM fields on Transmission Lines Calculating the impedance of coaxial lines Calculating and visualizing the fields in waveguides Propagation constants and waveguide modes The Taylor Series Expansion Fourier Series and Green's Functions Higher order modes and how to suppress them Vector Potential and Retarded Potentials Wire and aperture antennas Radio propagation and path loss Electromagnetic computer simulation of structures Directional couplers The Rat Race Hybrid Even and Odd Mode Analysis applied to the backward wave coupler Network analyzer impedance and transmission measurements Two port Scattering Parameters's matrix The Hybrid Ring coupler The Wilkinson power divider Filter design Butterworth Maximally flat Tchebyscheff responses Filter Q Diplexer Bandpass and Elliptic filters Richard's Transformation Kuroda's Identities Mumford's transmission line stub filters Transistor Amplifier Design gain biasing stability and conjugate matching Noise in systems noise figure of an amplifier cascade Amplifier non linearity and spurious free dynamic range Statistical Design and Yield Analysis

**Introduction to RF and Microwave Passive Components** Richard Wallace, Krister Andreasson, 2015-08-01

This authoritative new resource provides an overview and introduction to working with RF microwave and high frequency components From transmission lines antennas millimeter waves ferrites hybrids power dividers and filters this book focuses on practical time to market issues to help with projects in the field Keeping mathematics to a minimum this comprehensive volume is packed with over 700 illustrations that help clarify key concepts The reader will gain an in depth understanding of

the special characteristics exploited in microwave and high frequency design The book is also used in industrial training courses

**Microwave Transmission Line Couplers** J. A. G. Malherbe, 1988 A reference for the engineer interested in the design procedure Covers practical considerations with complete design examples The appendices contain two simple computer programs for the analysis of symmetrical three and four port networks and coupled line configuration applications for replication

**Parallel Coupled Lines and Directional Couplers** Leo Young (comp), 1972

*Lumped Elements for RF and Microwave Circuits, Second Edition* Inder Bahl, 2022-12-31 Fully updated and including entirely new chapters this Second Edition provides in depth coverage of the different types of RF and microwave circuit elements including inductors capacitors resistors transformers via holes airbridges and crossovers Featuring extensive formulas for lumped elements design trade offs and an updated and current list of references the book helps you understand the value and usefulness of lumped elements in the design of RF microwave and millimeter wave components and circuits You ll find a balanced treatment between standalone lumped elements and their circuits using MICs MMICs and RFICs technologies You ll also find detailed information on a broader range RFICs that was not available when the popular first edition was published The book captures in one consolidated volume the fundamentals equations modeling examples references and overall procedures to design test and produce microwave components that are indispensable in industry and academia today With its superb organization and expanded coverage of the subject this is a must have go to resource for practicing engineers and researchers in industry government and university and microwave engineers working in the antenna area Students will also find it a useful reference with its clear explanations many examples and practical modeling guidelines

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