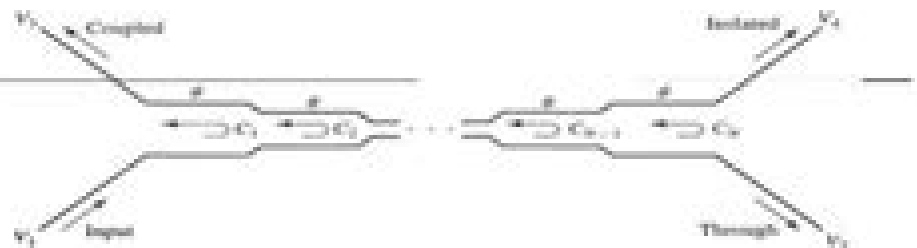
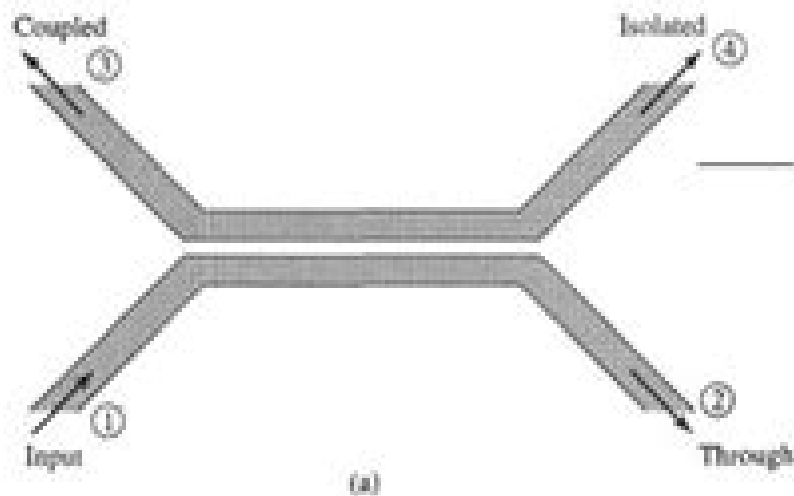


Coupled Line Couplers



- When 2 lines are close together, power can be coupled from one to the other (EM field interaction)
- C_{12} is capacitance between the 2 strip conductors in the absence of ground conductor, C_{11} & C_{22} are capacitance between strip and ground in the absence of the other strip



- Use more section to increase bandwidth

Parallel Coupled Lines Directional Couplers

N Colangelo

A decorative red curved shape, resembling a stylized arrow or a partial circle, is positioned to the right of the author's name.

Parallel Coupled Lines Directional Couplers:

Parallel Coupled Lines and Directional Couplers Leo Young,1972 *Parallel Coupled Lines and Directional Couplers* Leo Young (comp),1972 *High Directivity Coupled-line Directional Couplers* Joel David Bickford,1988 **Radio-Frequency Integrated-Circuit Engineering** Cam Nguyen,2015-03-04 Radio Frequency Integrated Circuit Engineering addresses the theory analysis and design of passive and active RFIC s 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

Foundations for Microstrip Circuit Design Terry C. Edwards,Michael B. Steer,2016-02-01 Building on the success of the previous three editions Foundations for Microstrip Circuit Design offers extensive new updated and revised material based upon the latest research Strongly design oriented this fourth edition provides the reader with a fundamental understanding of this fast expanding field making it a definitive source for professional engineers and researchers and an indispensable reference for senior students in electronic engineering Topics new to this edition microwave substrates multilayer transmission line structures modern EM tools and techniques microstrip and planar transmission line design transmission line theory substrates for planar transmission lines Vias wirebonds 3D integrated interposer structures computer aided design microstrip and power dependent effects circuit models microwave network analysis microstrip passive elements and slotline design fundamentals **Microwave and Millimetre-Wave Design for Wireless**

Communications Ian Robertson,Nutapong Somjit,Mitchai Chongcheawchamnan,2016-06-29 This book describes a full range of contemporary techniques for the design of transmitters and receivers for communications systems operating in the range from 1 through to 300 GHz In this frequency range there is a wide range of technologies that need to be employed with silicon ICs at the core but compared with other electronics systems a much greater use of more specialist devices and components for high performance for example high Q factor low loss and good power efficiency Many text books do of course cover these topics but what makes this book timely is the rapid adoption of millimetre waves frequencies from 30 to 300 GHz for a wide range of consumer applications such as wireless high definition TV 5G Gigabit mobile internet systems and automotive radars It has taken many years to develop low cost technologies for suitable transmitters and receivers so previously these frequencies have been employed only in expensive military and space applications The book will cover these modern technologies with the follow topics covered transmitters and receivers lumped element filters transmission lines and S

parameters RF MEMS RFICs and MMICs and many others In addition the book includes extensive line diagrams to illustrate circuit diagrams and block diagrams of systems including diagrams and photographs showing how circuits are implemented practically Furthermore case studies are also included to explain the salient features of a range of important wireless communications systems The book is accompanied with suitable design examples and exercises based on the Advanced Design System the industry leading CAD tool for wireless design More importantly the authors have been working with Keysight Technologies on a learning teaching initiative which is designed to promote access to industry standard EDA tools such as ADS Through its University Educational Support Program Keysight offers students the opportunity to request a student license backed up with extensive classroom materials and support resources This culminates with students having the chance to demonstrate their RF MW design and measurement expertise through the Keysight RF Microwave Industry Ready Student Certification Program www.keysight.com/find/eesof/university www.keysight.com/find/eesof/student/certification

Coupled Structures for Microwave Sensing Ferran Martín, Enrique Bronchalo, 2024-04-26 This book offers a comprehensive and timely review of planar microwave sensors based on coupled structures Gathering chapters contributed by the most authoritative researchers on this topic it presents various strategies for sensor performance optimization using coupled lines directional couplers and coupled resonators either distributed or semi lumped focusing mainly on sensitivity optimization and covering chains of coupled resonators as well The book also reports on analytical methods design formulas sensor validation tests with both simulation and experimental methods describing some relevant practical applications Mainly reflecting the research activity carried out by the different contributors in the last years this book also includes two introductory chapters to help readers who are not very familiar with microwave sensing technologies and coupled structures All in all this book addresses advanced graduate students and researchers involved in microwave and sensor technologies and may be of interest for engineers and professionals as well working in areas as diverse as wireless sensors and sensor networks biosensing chemical sensing motion control microfluidics Internet of Things IoT and smart systems

RF Circuit Design Techniques for MF-UHF Applications Abdullah Eroglu, 2017-12-19 Magnetic resonance imaging semiconductor processing and RFID are some of the critical applications within the medium frequency MF to ultrahigh frequency UHF range that require RF designers to have a solid understanding of analytical and experimental RF techniques Designers need to be able to design components and devices cost effectively and integrate them with high efficiency minimal loss and required power Computer aided design CAD tools also play an important part in helping to reduce costs and improve accuracy through optimization RF Circuit Design Techniques for MF UHF Applications explains how to design simulate and implement RF microwave components and devices for applications within the medium frequency MF to ultrahigh frequency UHF range The book makes RF design simple by expertly blending theory simulation and practical application examples A Practical Guide to RF Circuit Design in the MF UHF Range Theory Simulation and Real World Application Examples After a

review of network parameters used in the analysis of RF components and devices the book examines MF UHF design techniques in detail These include techniques for designing high power microstrip circuits directional couplers transformers composite and multilayer inductors filters combiners dividers and RFID systems For every device the book gives the required theory and then explains the verification process with CAD tools In addition each design is illustrated with real life implementation examples that use a variety of CAD tools such as MATLAB Mathcad HFSSTM Ansoft Designer Sonnet and PSpice Design tables curves and charts are included to demonstrate an efficient design process Throughout the book also offers practical hints to help engineers shorten the design time Design MF UHF Devices More Cost Effectively The book reflects the optimum design methodology used in RF engineering from the application of theory to simulation for verification to experimentation Packed with useful techniques tips and examples it is an invaluable resource for engineers researchers and students working in the MF UHF range

Asymmetric Passive Components in Microwave Integrated Circuits Hee-Ran Ahn, 2006-07-14 This book examines the new and important technology of asymmetric passive components for miniaturized microwave passive circuits The asymmetric design methods and ideas set forth by the author are groundbreaking and have not been treated in previous works Readers discover how these design methods reduce the circuit size of microwave integrated circuits and are also critical to reducing the cost of equipment such as cellular phones radars antennas automobiles and robots An introductory chapter on the history of asymmetric passive components which began with asymmetric ring hybrids first described by the author sets the background for the book It lays a solid foundation with a chapter examining microwave circuit parameters such as scattering ABCD impedance admittance and image A valuable feature of this chapter is a conversion table between the various circuit matrices characterizing two port networks terminated in arbitrary impedances The correct conversion has also never been treated in previous works Next the author sets forth a thorough treatment of asymmetric passive component design which covers the basic and indispensable elements for integration with other active or passive devices including Asymmetric ring hybrids Asymmetric branch line hybrids Asymmetric three port power dividers and N way power dividers Asymmetric ring hybrid phase shifters and attenuators Asymmetric ring filters and asymmetric impedance transformers With its focus on the principles of circuit element design this is a must have graduate level textbook for students in microwave engineering as well as a reference for design engineers who want to learn the new and powerful design method for asymmetric passive components

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 *Critical mm-Wave Components for Synthetic Automatic Test Systems* Michael Hrobak,2015-04-29 Michael Hrobak studied hybrid integrated front end modules for high frequency measurement equipment and especially for synthetic automatic test systems Recent developments of innovative critical millimeter wave components like frequency multipliers directional couplers filters triple balanced mixers and power detectors are illustrated by the author separately and in combination **Proceedings** ,1981 *Proceedings of the 1981 Army Numerical Analysis and Computers Conference* ,1981 **Proceedings of the Army Numerical and Computers Analysis Conference** ,1981 *Microwave Theory and Techniques* Mr. Rohit Manglik,2024-01-24 Introduces microwave components transmission techniques and devices used in radar and communication systems **Digital Video and Audio Broadcasting Technology** Walter Fischer,2020-01-03 This practical guide offers all important digital television sound radio and multimedia standards such as MPEG DVB DVD DAB ATSC T DMB DMB T DRM and ISDB T It provides an in depth look at these subjects in terms of practical experience In addition explains the basics of essential topics like analog television digital modulation COFDM or mathematical transformations between time and frequency domains The fourth edition addresses many new developments and features of digital broadcasting Especially it includes Ultra High Definition Television UHDTV 4K HEVC H 265 High Efficiency Video Coding DVB T2 measurement techniques and practice DOCSIS 3 1 DVB S2X and 3DTV as well as VHF FM radio HDMI terrestrial transmitters and stations In the center of the treatments are always measuring techniques and of measuring practice for each case consolidating the knowledge imparted with numerous practical examples The book is directed primarily at the specialist working in the field on transmitters and transmission equipment network planning studio technology playout centers and multiplex center technology and in the development departments for entertainment electronics or TV test engineering Since the entire field of electrical communications technology is traversed in a wide arc those who are students in this field are not excluded either **Analysis of Multiconductor Transmission Lines** Clayton R. Paul,2007-10-26 The essential textbook for electrical engineering students and professionals now in a valuable new edition The increasing use of high speed digital technology requires that all electrical engineers have a working knowledge of transmission lines However because of the introduction of computer engineering courses into already crowded four year undergraduate programs the transmission line courses in many electrical engineering programs have been relegated to a senior technical elective if offered at all Now Analysis of Multiconductor Transmission Lines Second Edition has been significantly updated and reorganized to fill the need for a structured course on transmission lines in a senior undergraduate or graduate level electrical engineering program In this new edition each broad analysis topic e g per unit length parameters frequency domain analysis time domain analysis and incident field excitation

now has a chapter concerning two conductor lines followed immediately by a chapter on MTLs for that topic This enables instructors to emphasize two conductor lines or MTLs or both In addition to the reorganization of the material this Second Edition now contains important advancements in analysis methods that have developed since the previous edition such as methods for achieving signal integrity SI in high speed digital interconnects the finite difference time domain FDTD solution methods and the time domain to frequency domain transformation TDFD method Furthermore the content of Chapters 8 and 9 on digital signal propagation and signal integrity application has been considerably expanded upon to reflect all of the vital information current and future designers of high speed digital systems need to know

Components and Devices T. Koryu Ishii, 2013-10-22 Handbook of Microwave Technology Volume I Components and Devices is a compact reference tool which provides both the fundamentals and applications of microwave technology This volume covers components and devices used in microwave circuits Chapters in the book discuss topics on microwave transmission lines microwave resonators and microstrip line components Microwave impedance matching techniques applications of microwave thermionic density modulated devices and microwave transistor oscillators and amplifiers are tackled as well Technicians scientists engineers and science and engineering students who are involved in microwave technology will find the text very useful

Stripline-like Transmission Lines for Microwave Integrated Circuits Bharathi Bhat, Shiban K. Koul, 1989 Stripline Like Transmission Lines For Microwave Integrated Circuits Offers A Unique Combination Of A Textbook And A Design Data Handbook It Provides An Exhaustive Coverage Of The Analysis Design And Applications Of Stripline Like Transmission Lines Starting From The Fundamental Principles The Book Builds Up On Analytical Techniques Towards The Solution Of Various Structures In A Lucid And Systematic Manner So As To Be Of Direct Utility For Classroom Teaching Both Quasi Static And Hybrid Mode Analyses Are Included A Unified Analytical Technique Is Developed Which Is Then Applied To A Class Of Single Conductor Edge Coupled And Broadside Coupled Structures Using Isotropic Anisotropic Substrates The Same Technique Is Extended To Analyse Rectangular Conductor Patches Open Circuit End Effects And Gap Capacitances In These Structures The Analyses Of Losses And Details Of Power Handling Capability Are Also Presented For R D Engineers Involved In Mic Design The Book Offers Unified Formulas And Closed Form Expressions Which Are Readily Programmable Graphical Illustrations And Extensive Tables Of Data On Propagation Parameters For A Wide Variety Of Practical Structures Using Commercially Available Dielectric Substrates The Book Concludes With A Chapter On Circuit Applications Which Discusses The Constructional Features Transitions To Coaxial Lines And Waveguides And Design Aspects Of A Member Of Mic Components Couplers Hybrids Baluns Power Dividers Filters Pin Diode Switches Attenuators And Phase Shifters And Mixers

RF and Microwave Transmitter Design Andrei Grebennikov, 2011-07-12 RF and Microwave Transmitter Design is unique in its coverage of both historical transmitter design and cutting edge technologies This text explores the results of well known and new theoretical analyses while informing readers of modern radio transmitters practical designs and their

components Jam packed with information this book broadcasts and streamlines the author s considerable experience in RF and microwave design and development

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