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Such as filters, oscillators, mixers,  
couplers, power  
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frequency selective surfaces.

They are also useful in various  
techniques for the determination  
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and K Chang, "Slow-wave  
bandpass filters using ring or  
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power dividers/combiners,  
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A rat-race coupler, also known as a hybrid ring coupler, is a type of coupler used in RF and microwave systems. In its simplest form, it is a 3 dB coupler and is thus an alternative to a magic tee.



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The three Q factors are related by the inverse relationship of Equation (4-10).  $Q_L Q_E Q_U = 1$  (4-10) At RF and microwave frequencies it is difficult to directly measure the  $Q_u$  of a resonator. We may be able to calculate the Q factor based on

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the physical properties of the individual inductors and capacitors as we have seen in chapter 1.

RF and Microwave Circuit Design -  
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Clive Poole, Izzat Darwazeh, in

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Microwave Active Circuit Analysis  
and Design, 2016. 1.3.3

Capacitors. Capacitors are very widely used in microwave circuits as DC blocking and decoupling elements, as well as reactive elements in filters, tuners, and matching networks.. Ceramic is

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the most common dielectric for microwave capacitors due to its low loss at high frequencies.

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Distributed-element circuits are electrical circuits composed of

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lengths of transmission lines or  
other distributed components.

These circuits perform the same  
functions as conventional circuits  
composed of passive  
components, such as capacitors,  
inductors, and transformers. They  
are used mostly at microwave

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frequencies, where conventional components are difficult to implement. Conventional circuits consist of individual components manufactured separately then connected together with a conductin



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For the past three decades, the ring resonator has been widely used in such applications as measurements, filters, oscillators, mixers, couplers, power dividers/combiners, antennas, and frequency-selective surfaces, to name just a few. The field has

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text so useful to both students and teachers in the field, the second edition seeks to introduce the analysis and models of ring resonators and to apply them to both the old and the new applications, including microstrip, slotline, coplanar waveguide, and

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line analysis An abundance of new applications in bandpass and bandstop filters, couplers, oscillators, and antennas While retaining all the features that made the original text so useful to both students and teachers in the field, the second edition seeks

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to introduce the analysis and models of ring resonators and to apply them to both the old and the new applications, including microstrip, slotline, coplanar waveguide, and waveguide transmission lines. Based on dissertations and papers

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Microwave ring circuits are remarkably simple in design and their performance is usually easy to predict. Because of these advantages, they are common components in everything from measurements to filters,



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oscillators to antennas, mixers to frequency selective surfaces. Yet despite their many uses, up until now a clear and detailed description of these vital components could be obtained only by sifting through numerous papers and books. Microwave

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provides the first fully dedicated treatment of ring circuits, with the aims of promoting a greater understanding of their design and operation and stimulating further applications. Based on ten years of research results and

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publications by the author and his students, as well as the work of other professional groups, Dr. Chang's text covers most ring resonators and cavities as they are utilized in a variety of transmission lines, including microstrip, slotline, coplanar

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ring circuits. Major coverage is devoted to the applications of ring resonators to microwave measurements, filters, couplers, and magic-T's. The final chapters offer a concise discussion of ring antennas and frequency selective surfaces, as well as a broad

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discussion of analysis, theory, modeling, modes, coupling methods, and perturbation methods, Dr. Chang examines various ring circuit applications. All are supported by real circuit demonstrations and actual circuit performances. The text also

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includes a discussion of the implementation of solid-state devices for tuning and switching the resonances. This text will serve as an invaluable resource for engineers, designers, researchers, and graduate students in the field. Topics

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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

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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



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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

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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

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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,

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Asymmetric ring filters and  
asymmetric impedance

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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

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waveguides, as opposed to more conventional waveguides, is their uniplanar construction, in which all of the conductors are aligned on the same side of the substrate. This feature simplifies manufacturing and allows faster and less expensive

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Characterization using on-wafer techniques. Coplanar Waveguide Circuits, Components, and Systems is an engineer's complete resource, collecting all of the available data on the subject. Rainee Simons thoroughly discusses propagation parameters



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for conventional coplanar waveguides and includes valuable details such as the derivation of the fundamental equations, physical explanations, and numerical examples. Coverage also includes: Discontinuities and circuit elements Transitions to

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This book presents and discusses strategies for the design and implementation of common-mode suppressed balanced microwave filters, including, narrowband, wideband, and ultra-wideband filters This book examines

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differential-mode, or balanced, microwave filters by discussing several implementations of practical realizations of these passive components. Topics covered include selective mode suppression, designs based on distributed and semi-lumped

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approaches, multilayer technologies, defect ground structures, coupled resonators, metamaterials, interference techniques, and substrate integrated waveguides, among others. Divided into five parts, Balanced Microwave Filters

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begins with an introduction that presents the fundamentals of balanced lines, circuits, and networks. Part 2 covers balanced transmission lines with common-mode noise suppression, including several types of common-mode filters and the

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application of such filters to enhance common-mode suppression in balanced bandpass filters. Next, Part 3 examines wideband and ultra-wideband (UWB) balanced bandpass filters with intrinsic common-mode suppression.

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Narrowband and dual-band balanced bandpass filters with intrinsic common-mode suppression are discussed in Part 4. Finally, Part 5 covers other balanced circuits, such as balanced power dividers and combiners, and differential-mode



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Structures with common-mode  
equalizers with common-mode  
filtering. In addition, the book:  
Explores a research topic of  
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transmission lines and circuits in  
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microwave filters. Post graduate students and Masters students in the field of microwave engineering and wireless communications, especially those involved in courses related to microwave filters, and balanced filters and circuits will also find it

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to be a vital resource.

Modelling and computations in electromagnetics is a quite fast-growing research area. The recent interest in this field is caused by the increased demand for designing complex microwave

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components, modeling electromagnetic materials, and rapid increase in computational power for calculation of complex electromagnetic problems. The first part of this book is devoted to the advances in the analysis techniques such as method of

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moments, finite-difference time-domain method, boundary perturbation theory, Fourier analysis, mode-matching method, and analysis based on circuit theory. These techniques are considered with regard to several challenging technological

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applications such as those related to electrically large devices, scattering in layered structures, photonic crystals, and artificial materials. The second part of the book deals with waveguides, transmission lines and transitions. This includes microstrip lines

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(MSL), slot waveguides, substrate integrated waveguides (SIW), vertical transmission lines in multilayer media as well as MSL to SIW and MSL to slot line transitions.

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of fiber optic links and delineating analog vs. digital links. The second section covers basic principles associated with microwave photonics in both the RF and optical domains. The third focuses on analog modulation formats—starting with a concept,

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deriving the RF performance metrics from basic physical models, and then analyzing issues specific to each format. The final part examines applications of microwave photonics, including analog receive-mode systems, high-power photodiodes

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meetings. The authors have more than 55 years of combined professional experience in microwave photonics and have published more than 250 associated works.

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