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RF Basic Concepts, Caspers, McIntosh, Kroyer 4. Fig. 1 2-port network Let us start by considering a simple 2-port network consisting of a single impedance Z connected in series (Fig. 1). The generator and load impedances are Z_G and Z_L , respectively. If $Z = 0$ and $Z_L = Z_G$ (for real Z_G) we have a matched load, i.e. maximum available power goes into

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Abstract The concept of describing RF circuits in terms of waves is discussed and the S-matrix and related matrices are defined. The signal flow graph (SFG) is introduced as a graphical means to...

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RF engineering basic concepts: the Smith chart F. Caspers CERN, Geneva, Switzerland Abstract The Smith chart is a very valuable and important tool that facilitates interpretation of S-parameter measurements. This paper will give a brief overview on why and more importantly on how to use the chart. Its definition as well

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The audience for the RF basic course are electrical engineers, technicians, sales engineers and other employees of an RF-related company who want to have general idea of RF basic concepts. At the end of this course you will have a general knowledge of the fundamental topics discussed in RF industry.

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RF Basic Concepts, Caspers, McIntosh, Kroyer The S-matrix for an ideal, lossless transmission line of length l is given by. where β is the propagation coefficient with the wavelength (this refers to the wavelength on the line containing some dielectric). For $\epsilon_r = 1$ we denote $\lambda = \lambda_0$. N.B.: It is supposed that the reflection factors are

RF Engineering Basic Concepts: The Smith Chart

CAS, Daresbury, September 2007 RF Basic Concepts, Caspers, McIntosh, Kroyer 3 The abbreviation S has been derived from the word scattering. For high frequencies, it is convenient to describe a given network in terms of waves rather than voltages or currents. This permits an easier definition of reference planes.

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RF engineering basic concepts: Sparameters. F. Caspers. CERN, Geneva, Switzerland. Abstract. The concept of describing RF circuits in terms of waves is discussed and the S-matrix and related matrices are defined. The signal flow graph (SFG) is introduced as a graphical means to visualize how waves propagate in an RF network. The properties of the most relevant passive RF devices (hybrids, couplers, nonreciprocal elements, etc.) are delineated and the corresponding S-parameters are given.

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basic antenna performance by a different expression of antenna gain: > Antenna Gain: The amount by which the signal strength at the output of an antenna is increased (or decreased) relative to the signal strength that would be obtained at the output of a standard reference antenna, assuming maximum gain of the reference antenna

Introduction to RF Engineering

Radio-frequency (RF) engineering is a subset of electronic engineering involving the application of transmission line, waveguide, antenna and electromagnetic field principles to the design and application of devices that produce or utilize signals within the radio band, the frequency range of about 20 kHz up to 300 GHz.. It is incorporated into almost everything that transmits or receives a ...

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