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basic antenna performance by a

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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 ...  
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(CERN) Jan 11, 2012. 27 pages.  
Published in: CERN Yellow Report  
CERN-2011-007, 67-93;

## **RF engineering basic concepts: S- parameters - INSPIRE**

RF Basic Concepts, Caspers, McIntosh,  
Kroyer The S-matrix for an ideal, lossless  
transmission line of length  $l$  is given by.  
where. is the propagation coefficient

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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**

Radio-frequency 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 radio wave, which includes, but is not limited to, mobile phones, radios, Wi-Fi, and two-way radios. RF engineer

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parameters Caspers, F. 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.

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theory...Validate new ideas using standard processes and methods; Make basic contributions to proposals, reports, and presentations under the direction of a manager or a staff engineer...

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