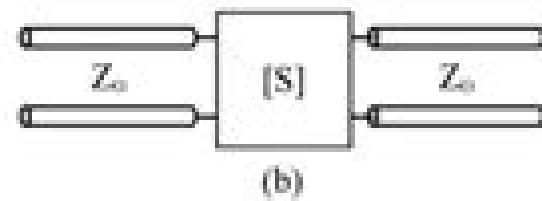
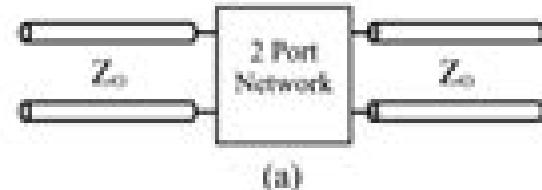


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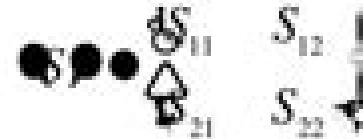
Consider a circuit or device inserted into a T-Line as shown in the Figure. We can refer to this circuit or device as a two-port network.

The behavior of the network can be completely characterized by its scattering parameters (S-parameters), or its scattering matrix, [S].

Scattering matrices are frequently used to characterize multiport networks, especially at high frequencies. They are used to represent microwave devices, such as amplifiers and circulators, and are easily related to concepts of gain, loss and reflection.



Scattering matrix



Network Scattering Parameters

Janusz Dobrowolski

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Balanced Twisted Pairs Using Scattering Parameters R. B. Hobgood, IBM CORP RESEARCH TRIANGLE PARK NC., 1983

The concept of scattering parameters has previously been used to describe the behavior of circuit networks in an effort to predict their behavior under varied external conditions. This paper describes the use of scattering parameters to lump an impedance test setup including connectors, cables, baluns and even internal test equipment circuitry into one two port network. Scattering parameters are then derived to describe the behavior of that network at one port as a function of varying loads that may be connected at the other port. After the network is characterized, the cable impedance is calculated from corrected short and open circuited cable impedance measurements. The basic theory of scattering parameters and their application to this procedure are described and equations are presented which are used to implement this method. A brief description of a computer program that was written to accomplish this procedure is included. Sample plots of the impedance of balanced cables which have been produced by the program are also presented.

Author *Radio Electronics and Communications Systems*, 1985

Parameter Independent Design Utilizing Scattering Parameters William F.

Duke, AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING., 1977 A parameter independence factor for two part networks is defined and a method for its calculation using finite differences is shown. An approach to two part scattering parameter circuit design using computer optimization techniques is developed and illustrations are presented to demonstrate the utilization of a digital computer for implementing this approach. The versatility of the approach is clarified by demonstrating how both standard network design criteria and parameter independent network design requirements are specified and met. This design technique has direct Air Force application in the areas of microwave network design and Electronic Warfare with particular emphasis on the independence of the network parameters with respect to device parameters.

Author *Fundamentals of Network Analysis and Synthesis* Behrouz Peikari, 1982

Microwave Transistor Amplifiers Guillermo Gonzalez, 1997 Appropriate for upper level undergraduate or graduate courses in microwave transistor amplifiers and oscillators. It would also be useful for short courses in companies that design and produce these devices. A unified presentation of the analysis and design of microwave transistor amplifiers and oscillators using scattering parameters techniques

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