

# CHAPTER 1

## INTRODUCTION TO MODERN NETWORK THEORY

### 1.1 MODERN NETWORK THEORY

A generalized filter is shown in Figure 1-1. The filter block may consist of inductors, capacitors, resistors, and possibly active elements such as operational amplifiers and transistors. The terminations shown are a voltage source  $E_s$ , a source resistance  $R_s$ , and a load resistor  $R_L$ .

The circuit equations for the network of Figure 1-1 can be written by using circuit-analysis techniques. Modern network theory solves these equations to determine the network values for optimum performance in some respect.

#### The Pole-Zero Concept

The frequency response of the generalized filter can be expressed as a ratio of two polynomials in  $x$  where  $x = j\omega$  ( $j = \sqrt{-1}$ , and so, the frequency in radians per second, is  $2\pi f$ ) and is referred to as a transfer function. This can be stated mathematically as

$$T(x) = \frac{E_L}{E_s} = \frac{N(x)}{D(x)} \quad (1-1)$$

The roots of the denominator polynomial  $D(x)$  are called poles and the roots of the numerator polynomial  $N(x)$  are referred to as zeros.

Deriving a network's transfer function could become quite tedious and is beyond the scope of this book. The following discussion explores the evaluation and representation of a relatively simple transfer function.

Analysis of the low-pass filter of Figure 1-2a results in the following transfer function:

$$T(x) = \frac{1}{x^2 + 2x^2 + 2x + 1} \quad (1-2)$$



FIGURE 1-1 A generalized filter.

# Chapter 1 Introduction To Modern Network Theory

**Arthur Williams, Fred J. Taylor**



## Chapter 1 Introduction To Modern Network Theory:

, *Electronic Filter Design Handbook, Fourth Edition* Arthur Williams, Fred J. Taylor, 2010-08-01 Keep up with major developments in Electronic Filter Design including the latest advances in both analog and digital filters Long established as The Bible of practical electronic filter design McGraw Hill's classic Electronic Filter Design Handbook has now been completely revised and updated for a new generation of design engineers The Fourth Edition includes the most recent advances in both analog and digital filter design plus a new CD for simplifying the design process ensuring accuracy of design and saving hours of manual computation *Modern Network Theory* Robert King Brayton, 1978 Network Analysis and Synthesis EduGorilla Prep Experts, 2024-07-17 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels Recent Developments in Network Theory S. R. Deards, 2014-05-12 Recent Developments in Network Theory presents the proceedings of the symposium on network theory held at the College of Aeronautics Cranfield in September 1961 The book contains papers that cover the recent developments in network theory The topics covered include the compound matrices in network theory the synthesis of linear three terminal networks composed of two kinds of elements the flow graph and signal flow graph analysis of linear systems the non linear circuit theory by the methods of classical dynamics and the search for a complete set of basic elements for the synthesis of non linear electrical systems This text will be of use to computer and network scientists Computer-aided Design Of Communication Networks Wai-kai Chen, Yi-sheng Zhu, 2000-04-19 Circuit design is now carried out by computers using algorithms instead of tables charts and rules of thumb The book is an introduction to the computer aided design of communication networks based on a firm analytic foundation of circuit theory and numerical techniques It provides design procedures and techniques of filters broadband matching networks compatible impedances high frequency amplifiers diplexers and multiplexers All programs are written in FORTRAN 77 and run by MS FORTRAN 5.1 and WATFIV compilers on personal computers A special feature of the book is that it bridges the gap between theory and practice and algorithms and implementations The level of the book is suitable for a senior elective or a circuit design course for the first year graduate students as well as a reference book for practicing engineers *Electronic Filter Design Handbook, Fourth Edition* Arthur Williams, Fred J. Taylor, 2006-07-31 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Keep up with major developments in Electronic Filter Design including the latest advances in both analog and digital filters Long established as The Bible of practical electronic filter design McGraw Hill's classic Electronic Filter Design Handbook has now been completely revised and updated for a new generation of design engineers The Fourth Edition includes the most recent

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**Handbook** Arthur Bernard Williams,Fred J. Taylor,1988 Active Network Synthesis Kendall Ling-chiao Su,1965

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