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_{α} a source resistance E_{α} and a load resistor E_{α} .

The circuit oquations for the network of Figure 1-1 can be written by using circuitnallysis 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 $x = f_{\rm eff}(J = \sqrt{-1})$, and as, the frequency in radians per second, is $2\pi f$) and is referred to as a transfer function. This can be stated mathematically as

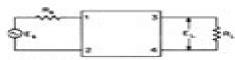
$$T(x) = \frac{E_1}{E_-} = \frac{N(x)}{D(x)}$$
(1-1)

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:

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



FEGURE 1-1: A generational filter.

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Fazioliah M. Reza, Samuel Seely

Chapter 1 Introduction To Modern Network Theory:

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Table of Contents Chapter 1 Introduction To Modern Network Theory

- 1. Understanding the eBook Chapter 1 Introduction To Modern Network Theory
 - The Rise of Digital Reading Chapter 1 Introduction To Modern Network Theory
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Chapter 1 Introduction To Modern Network Theory
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chapter 1 Introduction To Modern Network Theory
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Chapter 1 Introduction To Modern Network Theory
 - Personalized Recommendations
 - Chapter 1 Introduction To Modern Network Theory User Reviews and Ratings
 - Chapter 1 Introduction To Modern Network Theory and Bestseller Lists

- 5. Accessing Chapter 1 Introduction To Modern Network Theory Free and Paid eBooks
 - Chapter 1 Introduction To Modern Network Theory Public Domain eBooks
 - Chapter 1 Introduction To Modern Network Theory eBook Subscription Services
 - Chapter 1 Introduction To Modern Network Theory Budget-Friendly Options
- 6. Navigating Chapter 1 Introduction To Modern Network Theory eBook Formats
 - o ePub, PDF, MOBI, and More
 - Chapter 1 Introduction To Modern Network Theory Compatibility with Devices
 - Chapter 1 Introduction To Modern Network Theory Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 1 Introduction To Modern Network Theory
 - Highlighting and Note-Taking Chapter 1 Introduction To Modern Network Theory
 - Interactive Elements Chapter 1 Introduction To Modern Network Theory
- 8. Staying Engaged with Chapter 1 Introduction To Modern Network Theory
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 1 Introduction To Modern Network Theory
- 9. Balancing eBooks and Physical Books Chapter 1 Introduction To Modern Network Theory
 - ∘ Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Chapter 1 Introduction To Modern Network Theory
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 1 Introduction To Modern Network Theory
 - Setting Reading Goals Chapter 1 Introduction To Modern Network Theory
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 1 Introduction To Modern Network Theory
 - Fact-Checking eBook Content of Chapter 1 Introduction To Modern Network Theory
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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