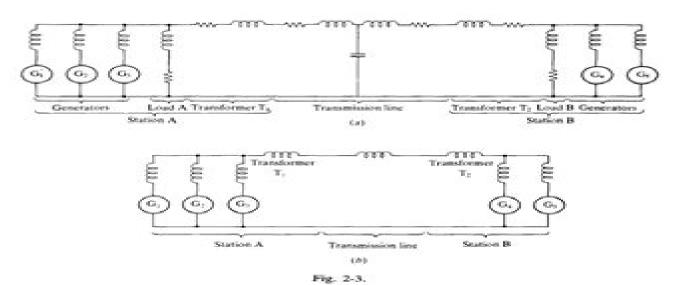
2.2 IMPEDANCE AND REACTANCE DIAGRAMS

The one-line diagram may serve as the basis for a circuit representation that includes the equivalent circuits of the components of the power system. Such a representation is called an impedance diagram, or a reactance diagram if resistances are neglected. The impedance and reactance diagrams corresponding to Fig. 2-2 are shown in Fig. 2-3(a) and (b), respectively. Note that only a single phase is shown.



The following assumptions have been incorporated into Fig. 2-3(a):

- A generator can be represented by a voltage source in series with an inductive reactance. The internal resistance of the generator is negligible compared to the reactance.
- The loads are inductive.
- 3. The transformer core is ideal, and the transformer may be represented by a reactance.
- The transmission line is a medium-length line and can be denoted by a T circuit. An alternative representation, such as a π circuit, is equally applicable.
- The delta-wye-connected transformer T₁ may be replaced by an equivalent wye-wye-connected transformer (via a delta-to-wye transformation) so that the impedance diagram may be drawn on a per-phase basis.

(The exact nature and values of the impedances or reactances are determined by methods discussed in later chapters.)

The reactance diagram, Fig. 2-3(b), is drawn by neglecting all resistances, the static loads, and the capacitance of the transmission line.

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Table of Contents Schaums Outline Of Electrical Power Systems

- 1. Understanding the eBook Schaums Outline Of Electrical Power Systems
 - The Rise of Digital Reading Schaums Outline Of Electrical Power Systems
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Schaums Outline Of Electrical Power Systems
 - 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 Schaums Outline Of Electrical Power Systems
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Schaums Outline Of Electrical Power Systems

- Personalized Recommendations
- Schaums Outline Of Electrical Power Systems User Reviews and Ratings
- Schaums Outline Of Electrical Power Systems and Bestseller Lists
- 5. Accessing Schaums Outline Of Electrical Power Systems Free and Paid eBooks
 - Schaums Outline Of Electrical Power Systems Public Domain eBooks
 - Schaums Outline Of Electrical Power Systems eBook Subscription Services
 - Schaums Outline Of Electrical Power Systems Budget-Friendly Options
- 6. Navigating Schaums Outline Of Electrical Power Systems eBook Formats
 - o ePub, PDF, MOBI, and More
 - Schaums Outline Of Electrical Power Systems Compatibility with Devices
 - Schaums Outline Of Electrical Power Systems Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Schaums Outline Of Electrical Power Systems
 - Highlighting and Note-Taking Schaums Outline Of Electrical Power Systems
 - Interactive Elements Schaums Outline Of Electrical Power Systems
- 8. Staying Engaged with Schaums Outline Of Electrical Power Systems
 - o Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Schaums Outline Of Electrical Power Systems
- 9. Balancing eBooks and Physical Books Schaums Outline Of Electrical Power Systems
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Schaums Outline Of Electrical Power Systems
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Schaums Outline Of Electrical Power Systems
 - Setting Reading Goals Schaums Outline Of Electrical Power Systems
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Schaums Outline Of Electrical Power Systems

- Fact-Checking eBook Content of Schaums Outline Of Electrical Power Systems
- 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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