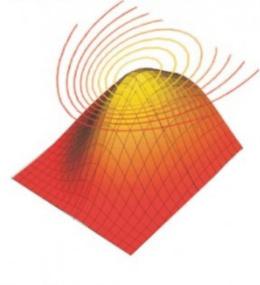
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# Fundamental of Network Analysis & Synthesis



## Fundamental of Network Analysis & Synthesis

**Author:** Pradeep Kumar

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#### **Product Description**

Pradeep Kumar

This book is written according to new revised syllabus of U.P. Technical to Electronics and communication Engineering, Electronics and Instrumentation Engineering. This book is providing the knowledge in depth for fundamentals of network analysis and synthesis, amplitude and phase response, two port networks, designing of the active and passive filters with suitable number of examples. This book has evolved the lecture material prepared by the author to teach the course network analysis and synthesis. The material provided in this book is in a lucid manner along with very simple language. The students can easily grasp the information. each chapter is written in the systematic manner along with the coverage of the basic theoretical concepts, analytical techniques also with sufficient examples.



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#### **Table of Contents**

**Chapter 1:** Signals and Systems. **Chapter 2:** Waveforms and Signals. **Chapter 3:** Network Analysis-1. **Chapter 4:** Introduction to Laplace Transformation. **Chapter 5:** Network Analysis-II. **Chapter 6:** Amplitude and Phase Response.

**Chapter 7:** Two Port Network. **Chapter 8:** Network Function. **Chapter 9:** Positive Real Function. **Chapter 10:** Driving Point Synthesis. **Chapter 11:**Elements of Transfer Function Synthesis.

**Chapter 12:** Active Network Synthesis.

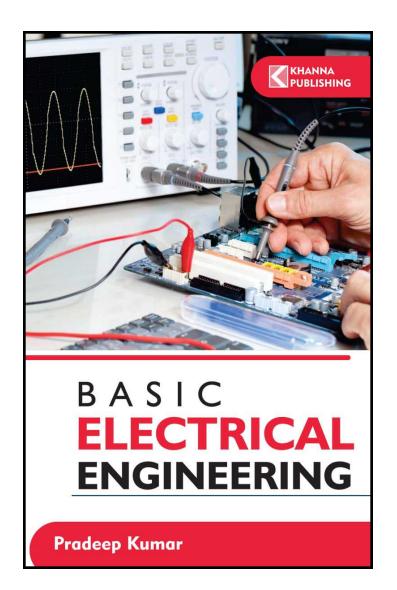
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### **Basic Electrical Engineering**

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This book is intended to serve as a textbook for the B. Tech first year students which are common to all branches of engineering of the Uttar Pradesh Technical University (UPTU), Lucknow. This book includes the in-depth knowledge of network theorems, electric machines, and power systems. In this book the basic concepts, principles are clearly explained.

#### **Table of Contents**

**Chapter 1:** Fundamental of Electric Circuits. **Chapter 2:** Network Theorem.Chapter1: **Chapter 3:** Steady State Analysis of Single Phase Ac Circuit. **Chapter 3:** Complex Number. **Chapter 5:** Three Phase System. **Chapter 6:** Magnetic Circuits. **Chapter 7:**Transformers. **Chapter 8:** Electric Machines. **Chapter 9:** Measuring Instruments.



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