

Chapter 1 : Power System: Operation & Control

*Basic Electrical Engineering, Revised Edition [K Uma Rao, A Jayalakshmi] on calendrierdelascience.com *FREE* shipping on qualifying offers. This book on Basic Electrical Engineering is envisaged to bridge the gap in the knowledge of day-to-day applications of electrical engineering.*

A strong need was felt for such a book, which would address the needs of Indian Students hailing from different backgrounds across the country. The book is written in two parts. Part A covers the important topics of circuit analysis and basic instrumentation. Part B deals with the concepts of Electrical Machines. Part A has six chapters. Chapter 4 introduces the students to the fundamentals of ac circuits. Solution of simple series and parallel ac circuits is presented. Chapter 5 presents concepts of three phase circuits. Solution of balanced three phase star and delta connected networks is dealt with in this chapter. The chapter also discusses the various methods for measurement of three phase power. Chapter 6 exposes the student to common electrical appliances and electrical engineering practices we come across in day to day life. The chapter covers the topics of methods of electrical wiring, choice of cables, simple wiring schemes, working principle of fuses, principle of MCBs, earthing methods, common lighting sources, estimation of energy requirement for simple loads, causes and prevention of electric shocks. Finally, chapter 7 covers basic concepts of electrical measurement. Moving coil and moving iron instruments, dynamometer wattmeter and energy meter are discussed in detail. Part B is devoted to the treatment of Electrical Machines. Chapter 1 presents the fundamental concepts of electric machines. Chapter 2 deals with dc generators. The construction, principle of operation and derivation of induced emf are presented in detail. Chapter 3 deals with the operation, types and characteristics of dc motors. It also covers the important topics of testing and speed control of dc motors. Chapter 4 is devoted to transformers. The constructional features, operation, phasor diagram, testing, computation of efficiency and regulation are discussed in detail. Chapter 5 deals with three phase induction motors, which are the most rugged and widely used in the industry. Chapter 6 presents three phase alternators. The construction, emf equation and different methods of regulation are covered in detail. Chapter 7 covers single phase induction motors. Chapter 8 gives the experimental procedure for some of the common experiments conducted in electrical machines laboratory. All chapters are presented in a simple and lucid manner to facilitate an easy understanding of the subject. Important concepts are highlighted to emphasize the need to remember them. Every chapter contains a number of solved examples to strengthen the learning of the student and help the student, apply the concepts in various contexts. The examples presented help the students to relate abstract concepts in Electrical Engineering to practical applications which they see in their daily lives. Every chapter also gives a number of questions and unsolved problems for the student to work out. The book can be used as a text book for a course in Basic Electrical Engineering, a fundamental course in Electric circuits and also for a basic course in Electrical Machines.

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