

J S Katre Basic Electrical Engineering

Basic Electrical EngineeringBasic Electrical Engineering (Vel Tech)Basic Electrical EngineeringBasic Electrical and Electronics EngineeringBasic Electrical EngineeringBasic Electrical EngineeringBasic Electrical EngineeringBasic Electric Power EngineeringBasic Electrical EngineeringBasic Electrical EngineeringBasic Electrical EngineeringBasic Electrical Engineering: Principles, Designs and ApplicationsBasic Electrical EngineeringBasic Electrical EngineeringBasic Electrical EngineeringBasic electrical engineeringBasic Electrical EngineeringBasic Electrical and Electronics Engineering:Basic Electrical and Electronics Engineering Precise Mehta V.K. & Mehta Rohit SK Sahdev Arthur Eugene Fitzgerald R.K. Rajput Ritu Sahdev Aleksandr Sergeevich Kasatkin J. P. Tiwari Olle Ingemar Elgerd John Shepherd Dr. Ramana Pilla, Dr. M Surya Kalavathi & Dr. G T Chandra Sekhar A. Kasatkin Vibhav Kumar Sachan C.L. Wadhwa J. M. Shepherd Arthur Eugene Fitzgerald Arthur Eugene Fitzgerald John Shepherd S.K. Bhattacharya V. Jegathesan
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for close to 30 years basic electrical engineering has been the go to text for students of electrical engineering emphasis on concepts and clear mathematical derivations simple language coupled with systematic development of the subject aided by illustrations makes this text a fundamental read on the subject divided into 17 chapters the book covers all the major topics such as dc circuits units of work power and energy magnetic circuits fundamentals of ac circuits and electrical instruments and electrical measurements in a straightforward manner for students to understand

attuned to the needs of undergraduate students of engineering in their first year basic electrical engineering enables them to build a strong foundation in the subject a

large number of real world examples illustrate the applications of complex theories the book comprehensively covers all the areas taught in a one semester course and serves as an ideal study material on the subject

although a number of books written by various authors on the subject are available in the market however the author feels that this book will facilitate the students not only to prepare for the regular university examinations the book is also quite suitable for the professionals since many live examples have been incorporated the book has the following exclusive features i the learning objectives of each chapter have been incorporated in the beginning to develop curiosity among the students ii practice exercise have been added in all the chapters after suitable intervals to impart necessary practice iii at the end of each chapter its summary highlights are given this will enable the students to revise the subject matter quickly iv a number of short answer and test questions have been given at the end of each chapter while answering these questions the readers will have to think deep into the subject matter this will improve their analytical approach consequently the students readers will be in position to respond in a better way while appearing before the selection board or to deal with practical problems v a sufficient number of objective type questions mcq have been given at the end of each chapter these questions will help the students to perform better in the competitive examinations vi the subject matter is treated in a simple and lucid manner so that an average student can understand the subject easily although typical mathematical expressions are avoided but simple mathematical relations are used for better explanation and understanding

this book is designed based on revised syllabus of jntu hyderabad aicte model curriculum for under graduate b tech be students of all branches those who study basic electrical engineering as one of the subject in their curriculum the primary goal of this book is to establish a firm understanding of the basic laws of electric circuits network theorems resonance three phase circuits transformers electrical machines and electrical installation

basic electrical engineering principles designs and applications has been widely utilized in recent years in electrical engineering microprocessors electrical drives and power electronics research among other fields this book aims to cater to the needs of the undergraduate courses in the discipline of electronics communication engineering electronics instrumentation engineering electrical electronics engineering instrumentation and control engineering and postgraduate students specializing in electronics control engineering it will also serve as reference material for engineers employed in industry the fundamental concepts and principles behind transformers three phase circuits and electrical generators and motors are explained in a simple easy to understand manner each chapter contains a good number of short answers and of multiple choice questions with explanation which makes the book quite useful for indian engineering service ies graduate aptitude test in engineering gate national eligibility test net state eligibility test set university grants commission council of scientific industrial research ugc csir and other entrance examinations

basic electrical engineering has been written as a core course for all engineering students viz electronics and communication engineering computer engineering civil

engineering mechanical engineering etc since this course will normally be offered at the first year level of engineering the author has made modest effort to give in a concise form various features of basic electrical engineering using simple language and through solved examples avoiding the rigorous of mathematics the salient features of the book are steady state analysis of a c circuits explained network theorems explained using typical examples analysis of 3 phase circuits and measurement of power in these circuits explained measuring instruments like ammeter voltmeter wattmeter and energy meter described various electrical machines viz transformers d c machines single phase and three phase induction motors synchronous machines servomotors have been described a brief view of power system including conventional and non conventional services of electric energy is given domestic wiring has been discussed numerous solved examples and practice problems for thorough grasp of the subject presented a large number of multiple choice questions with answers given

basic electrical and electronics engineering provides an overview of the basics of electrical and electronic engineering that are required at the undergraduate level the book allows students outside electrical and electronics engineering to easily

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