

J S Katre Basic Electrical Engineering

Basic Electrical Engineering Basic Electrical Engineering Basic Electrical and Electronics Engineering Basic Electrical Engineering Fundamentals of Electrical Engineering and Electronics Basic Electrical Engineering Basic Electrical Engineering (Vel Tech) Basic Electrical Engineering Basic Electrical Engineering Basic Electrical Engineering Basic Electrical Engineering Basic Electrical Engineering Basic Electrical Engineering Basic Electrical Engineering and Electronics Basic Electrical and Electronics Engineering Precise Basic Electrical Engineering Experiments In Basic Electrical Engineering Basic Electrical Engineering Basic Electrical Engineering Mehta V.K. & Mehta Rohit Dr. Ramana Pilla, Dr. M Surya Kalavathi & Dr. G T Chandra Sekhar R.K. Rajput John Shepherd BL Theraja SK Sahdev J. M. Shepherd Dr. K. A. Navas A. Kasatkin SINGH, S. N. David E. Higginbotham D.K. Sharma V. Jegathesan K. Uma Rao S.K. Bhattacharya Jimmie J. Cathey John Shepherd Mithal G K Basic Electrical Engineering Basic Electrical Engineering Basic Electrical and Electronics Engineering Basic Electrical Engineering Fundamentals of Electrical Engineering and Electronics Basic Electrical Engineering Basic Electrical Engineering (Vel Tech) Basic Electrical Engineering Basic Electrical Engineering Basic Electrical Engineering Basic Electrical Engineering Basic Electrical Engineering Basic Electrical Engineering Basic Electrical Engineering and Electronics Basic Electrical and Electronics Engineering Precise Basic Electrical Engineering Experiments In Basic Electrical Engineering Basic Electrical Engineering Basic Electrical Engineering Basic Electrical Engineering Mehta V.K. & Mehta Rohit Dr. Ramana Pilla, Dr. M Surya Kalavathi & Dr. G T Chandra Sekhar R.K. Rajput John Shepherd BL Theraja SK Sahdev J. M. Shepherd Dr. K. A. Navas A. Kasatkin SINGH, S. N. David E. Higginbotham D.K. Sharma V. Jegathesan K. Uma Rao S.K. Bhattacharya Jimmie J. Cathey John Shepherd Mithal G K

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

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

this book extensive pruning of the solved examples in the text majority of the old examples have been replaced by questions set in the latest examination papers of different engineering colleges and technical institutions

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

the book is written per the syllabus of first year engineering degree course for various universities it covers basic topics of electrical engineering it also includes worked out examples university examination questions and answers exercise etc in every chapter this book is suitable for course in basic electrical engineering under various universities authors have tried to elucidate the topics in such a way that even a mediocre student can assimilate them many solved problems sample question papers and exercise given in every section will provide a thorough understanding of the topics other features include attractive writing style well structured equations and numerical examples pictures of high clarity etc

this book presents comprehensive coverage of all the basic concepts in electrical engineering it is designed for undergraduate

students of almost all branches of engineering for an introductory course in essentials of electrical engineering this book explains in detail the properties of different electric circuit elements such as resistors inductors and capacitors the fundamental concepts of dc circuit laws such as kirchhoff s current and voltage laws and various network theorems such as thevenin s theorem norton s theorem superposition theorem maximum power transfer theorem reciprocity theorem and millman s theorem are thoroughly discussed the book also presents the analysis of ac circuits and discusses transient analysis due to switch operations in ac and dc circuits as well as analysis of three phase circuits it describes series and parallel rlc circuits magnetic circuits and the working principle of different kinds of transformers in addition the book explains the principle of energy conversion the operating characteristics of dc machines three phase induction machines and synchronous machines as well as single phase motors finally the book includes a discussion on technologies of electric power generation along with the different types of energy sources key features includes numerous solved examples and illustrations for sound conceptual understanding provides well graded chapter end problems to develop the problem solving capability of the students supplemented with three appendices addressing matrix algebra trigonometric identities and laplace transforms of commonly used functions to help students understand the mathematical concepts required for the study of electrical engineering

it has often been experienced that students are required to perform experiments on certain topic before the relevant theory has been taught in the class a laboratory manual which in addition to a set of instructions for performing experiments includes related theory in brief could help students understand experiments better in response of demand from a large number of states for an appropriate laboratory manual in basic electricity and electrical measurements the t t t i chandigarh has prepared this manual which has been tried out in various polytechnics and improved based on the feedback the basic objective of the manual is to encourage students to perform experiments independently and purposefully the manual organises the information to enable the students to verify known concepts and principles and to follow certain procedures and practices and thereby acquire relevant skills detailed instructions for carrying out each experiment alongwith relevant theory in brief have been given the objectives for performing an experiment have been included at the beginning of each experiment a list of questions given at the end of each

experiment will help students evaluate his own understanding the manual also includes guidelines for students and teachers for its effective use an assessment proforma given at the beginning of the manual may be used by the teachers in evaluating the students

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