

J S Katre Basic Electrical Engineering

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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

this book provides an overview of the basics of electrical and electronic engineering that are required at the undergraduate level efforts have been taken to keep the complexity level of the subject to bare minimum so that the students of non electrical electronics can easily understand the basics it offers an unparalleled exposure to the entire gamut of topics such as electricity fundamentals network theory electro magnetism electrical machines transformers measuring instruments power systems semiconductor devices digital electronics and integrated circuits

this book is designed based on revised syllabus of jntu hyderabad aictc 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

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

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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