

Textbook Of Basic Electrical And Electronics Engineering Jb Gupta Pdf

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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

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

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

this book is designed based on the revised syllabus r23 of jntu for the undergraduate b tech be students of all branches who study basic electrical and electronics engineering the book establishes a firm understanding of the basic laws of electric circuits electrical machines measuring instruments energy resources electricity bill safety measures semiconductor devices basic electronic circuits and digital electronics the book also describes various waveforms including sinusoidal and other periodic for evaluation of rms value average value form factor and peak factor principle of operation construction details performance equations and applications of dc machine principle of operation and construction details of moving iron instruments moving coil instruments energy meter cathode ray oscilloscope properties of semiconductor materials principle of operation of pn junction diode principle of operation of bipolar junction transistor transistor types and their configurations various number systems bcd excess 3 gray codes and their conversions boolean algebra etc the contents of this book are presented in a simple way for easy understanding of students and can be used as self study material

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

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