

Basic Electrical Engineering Second Edition By V N Mittle And Arvind Mittal Pdf

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... International Machinery Monitoring & Diagnostics Conference & Exhibit *Dr. Yaduvir Singh Pavlos Stylianos Georgilakis Mr. Rohit Manglik Susan S. Mathew Sadrul Ula Institution of Electronics and Telecommunication Engineers (India) William F. Ames Institution of Engineers (India) Institute of Electrical and Electronics Engineers*

spotlight on modern transformer design introduces a novel approach to transformer design using artificial intelligence ai techniques in combination with finite element method fem today ai is widely used for modeling nonlinear and large scale systems especially when explicit mathematical models are difficult to obtain or completely lacking moreover ai is computationally efficient in solving hard optimization problems many numerical examples throughout the book illustrate the application of the techniques discussed to a variety of real life transformer design problems including problems relating to the prediction of no load losses winding material selection transformer design optimisation and transformer selection spotlight on modern transformer design is a valuable learning tool for advanced undergraduate and graduate students as well as researchers and power engineering professionals working in electric utilities and industries public authorities and design offices

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fundamentals of electrical electronics engineering is a compulsory paper for the first year diploma course in engineering technology syllabus of this book is strictly aligned as per model curriculum of aicte and academic content is amalgamated with the concept of outcome based education books covers six topics overview of electronics components and signals overview of analog circuits overview of digital electronics electric and magnetic circuits a c circuits and transformer and machines each topic is written in easy and lucid manner a set of exercises at the end of each unit to test the student's comprehension is provided some salient features of the book 1 content of the book aligned with the mapping of course outcomes programs outcomes and unit outcomes 1 the practical applications of the topics are discussed along with micro projects and activities for generating further curiosity as well as improving problem solving capacity 1 book provides lots of vital facts concepts principles and other interesting information 1 qr codes of video resources and websites to enhance use of ict for relevant supportive knowledge have been provided 1 student and teacher centric course materials included in book in balanced manner 1 figures tables equations and comparative charts are inserted to improve clarity of the topics 1 objective questions and subjective questions are given for practices of students at the end of each unit solved and unsolved problems including numerical examples are solved with systematic steps

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