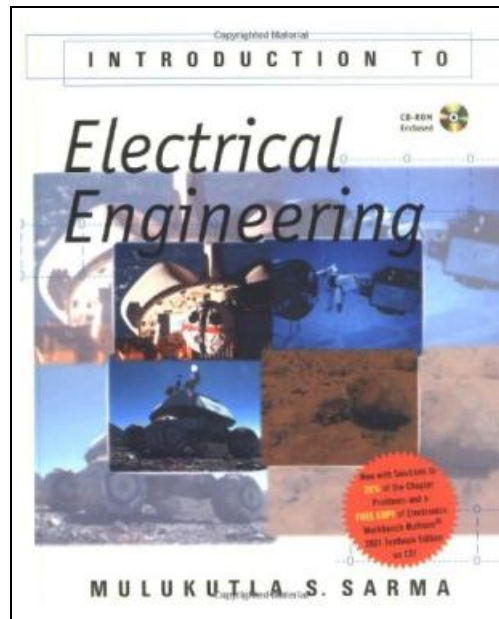


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INTRODUCTION TO ELECTRICAL ENGINEERING (HARDBACK)



Oxford University Press Inc, United States, 2000. Hardback. Condition: New. Language: English . This book usually ship within 10-15 business days and we will endeavor to dispatch orders quicker than this where possible. Brand New Book. The purpose of this text is to present a problem-oriented introductory survey of electrical engineering, by arousing student enthusiasm while addressing the underlying concepts and methods behind various applications ranging from consumer gadgets and biomedical electronics to sophisticated instrumentation systems, computers, and multifarious electric machinery. The focus is on acquainting students majoring in all branches of engineering and science, especially in courses for non-electrical-engineering majors, with the nature of the subject and the potentialities of its techniques, while emphasizing the principles. Since principles and concepts are most effectively taught by means of a problem-oriented course, judiciously selected topics are treated in sufficient depth so as to permit the assignment of adequately challenging problems which tend to implant the relevant principles in student s minds. In addition to an academic-year (two semesters or three quarters) introductory course traditionally offered to non-electrical engineering majors in a number of universities. Modern technology demands a team approach in which electrical engineers and non-electrical engineers have to work together sharing a common technical vocabulary. This text is a result based on almost 40 years of experience teaching a wide variety of courses to electrical as well as non-electrical majors, an dmore particularly on the need to answer many of the questions raised by so many of my students. The book is divided into five parts in order to provide flexibility. A glance at the Table of Contents will show that Part I concerns itself with basic electric circuits, in which circuit concepts, analysis techniques, time-dependent analysis including transients, as well as three-phase circuits are covered. Part II deals with...



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