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for undergraduate introductory or survey courses in electrical engineering electrical engineering principles and applications 5 helps students learn electrical engineering fundamentals with minimal frustration its goals are to present basic concepts in a general setting to show students how the principles of electrical engineering apply to specific problems in their own fields and to enhance the overall learning process circuit analysis digital systems electronics and electromechanics are covered a wide variety of pedagogical features stimulate student interest and engender awareness of the material's relevance to their chosen profession

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the author's guiding philosophy in writing this text has three elements to present basic concepts to students in a general setting to show how the principles of electrical engineering apply to

specific problems in their own fields and to enhance the learning process

the book provides a wealth of readily accessible information on basic electronics for those interested in electrical and computer engineering its friendly approach clear writing style and realistic design examples which earned hambley the 1998 asee meriam wiley distinguished author award continue in the second edition features benefits new refines and reorganizes chapter content the introduction and treatment of external amplifier characteristics has been condensed into the first chapter op amps are treated in a single chapter and treatment of device physics has been shortened and appears in various chapters on an as needed basis avoids overloading beginners with unnecessary detail making the book more succinct and user friendly new provides early treatment of integrated circuit techniques with greater emphasis throughout enabling readers to gain knowledge of integrated circuits without taking an advanced course it also integrates the concepts rather than presenting them in piecemeal fashion new emphasizes mosfets over jfets preparing the reader for advanced study of analog and digital cmos and ic s offers outstanding pedagogical features throughout chapter opening material shows the reader how each chapter is organized example titles allow the reader to easily locate examples related to a particular topic margin comments summarize procedures and emphasize important points treats digital circuits early in the book emphasizes design for example anatomy of design sections show realistic design examples demonstrates ways in which material fits together providing motivation and creating interest publisher

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