

## Electrical Engineering Allan R Hambley

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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. 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.

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\*Demonstrates ways in which material fits together, providing motivation and creating interest.

Metals are still the most widely used structural materials in the manufacture of products and structures. Their properties are extremely dependent on the processes they undergo to form the final product. Successful manufacturing therefore depends on a detailed knowledge of the processing of the materials involved. This highly illustrated book provides that knowledge. Metal processing is a technical subject requiring a quantitative approach. This book illustrates this approach with real case studies derived from industry. Real industrial case studies Quantitative approach Challenging student problems

The advent of low temperature superconductors in the early 1960's converted what had been a laboratory curiosity with very limited possibilities to a practical means of fabricating electrical components and devices with lossless conductors. Using liquid helium as a coolant, the successful construction and operation of high field strength magnet systems, alternators, motors and transmission lines was announced. These developments ushered in the era of what may be termed cryogenic power engineering and a decade later successful operating systems could be found such as the 5 T saddle magnet designed and built in the United States by the Argonne National Laboratory and installed on an experimental power generating facility at the High Temperature Institute in Moscow, Russia. The field of digital computers provided an incentive of a quite different kind to operate at cryogenic temperatures. In this case, the objective was to obtain higher switching speeds than are possible at ambient temperatures with the critical issue being the operating characteristics of semiconductor switches under cryogenic conditions. By 1980, cryogenic electronics was established as another branch of electric engineering.

The fourth edition of "Principles and Applications of Electrical Engineering" provides comprehensive coverage of the principles of electrical, electronic, and electromechanical engineering to non-electrical engineering majors. Building on the success of previous editions, this text focuses on relevant and practical applications that will appeal to all engineering students.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. For non-electrical engineering majors taking the introduction to electrical engineering course. Electrical Engineering: Concepts and Applications is the result of a multi-disciplinary effort at Michigan Technological University to create a new curriculum that is attractive, motivational, and relevant to students by creating many application-based problems; and provide the optimal level of both range and depth of coverage of EE topics in a curriculum package.

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