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effort has been made to make the treatments simple and comprehensive throughout this book the stress has been given on fundamental concepts through illustrative examples neat and clear diagrams have been used for explanation contents energy bands in solids transport mechanism in semiconductor junction diodes bipolar junction transistors transistors as an amplifier binary system and logic circuit operational amplifiers electronic instruments

nigel cook makes the world of electronics come alive as he guides the reader through the basic components used to produce electronic devices and the various applications and test methods used when building them

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from binary numbers and logic gates to programmable logic devices and microprocessor based systems this text integrates basic digital electronic theory with up to date digital technology

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the physical basis of electronics an introductory course second edition is an 11 chapter text that discusses the physical concepts of electronic devices this edition deals with the considerable advances in electronic techniques from the introduction of field effect transistors to the development of integrated circuits the opening chapters discuss the fundamentals of vacuum electronics and solid state electronics the subsequent chapters deal with the other components of electronic devices and their functions including semiconductor diode and transistor as an amplifier and a switch the discussion then shifts to several types of field effect transistor and the production of p n junctions transistors and integrated circuits a chapter highlights the four classifications of thermionic valves commonly used in electronic devices namely diodes triodes tetrodes and pentodes this chapter also considers the effect of small gas introduced to the characteristics of these valves the concluding chapters discuss some of the basic modes of operation of electronic circuits and cathode ray tube this edition is of great value to undergraduate electronics students

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