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teaches analog and digital circuit theory by building working circuits for college students and self study

a practically based explanation of electronic circuitry

this step by step approach encourages familiarity with electronic components and their applications the worked examples and 32 practical investigations give an understanding of electronic circuits concept and design to provide the reader with the necessary skills and knowledge

how much do you need to know about electronics to create something interesting or creatively modify something that already exists if you d like to build an electronic device but don t have much experience with electronics components this hands on workbench reference helps you find answers to technical questions quickly filling the gap between a beginner s primer and a formal textbook practical electronics explores aspects of electronic components techniques and tools that you would typically learn on the job and from years of experience even if you ve worked with electronics or have a background in electronics theory you re bound to find important information that you may not have encountered before among the book s many topics you Il discover how to read and understand the datasheet for an electronic component use uncommon but inexpensive tools to achieve more professional looking results select the appropriate analog and digital ics for your project select and assemble various types of connectors do basic reverse engineering on a device in order to modify hack it use open source tools for schematic capture and pcb layout make smart choices when buying new or used test equipment

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