1. Record Nr. UNINA9910823262303321 Autore Boysen Earl Titolo Complete electronics [[electronic resource]]: self-teaching guide with projects / / Earl Boysen, Harry Kybett Indianapolis, : Wiley, 2012 Pubbl/distr/stampa 1-118-28232-9 **ISBN** 1-280-99838-5 9786613769992 1-118-28469-0 Edizione [1st ed.] Descrizione fisica 1 online resource (556 p.) Altri autori (Persone) **KybettHarry** Disciplina 621.381 Electronics - Study and teaching Soggetti **Electronics** Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Includes index. Nota di bibliografia Includes bibliographical references. Cover; Chapter 1: DC Review and Pre-Test; Current Flow; Ohm's Law: Nota di contenuto Resistors in Series; Resistors in Parallel; Power; Small Currents; The Graph of Resistance; The Voltage Divider; The Current Divider; Switches; Capacitors in a DC Circuit; Summary; DC Pre-Test; Chapter 2: The Diode; Understanding Diodes; Diode Breakdown; The Zener Diode; Summary: Self-Test; Chapter 3: Introduction to the Transistor; Understanding Transistors: The Junction Field Effect Transistor (JFET): Summary; Self-Test; Chapter 4: The Transistor Switch; Turning the Transistor On; Turning Off the Transistor Why Transistors Are Used as SwitchesThe Three-Transistor Switch: Alternative Base Switching: Switching the JFET: Summary: Self-Test: Chapter 5: AC Pre-Test and Review; The Generator; Resistors in AC Circuits: Capacitors in AC Circuits: The Inductor in an AC Circuit: Resonance; Summary; Self-Test; Chapter 6: Filters; Capacitors in AC Circuits; Capacitors and Resistors in Series; Phase Shift of an RC Circuit; Resistor and Capacitor in Parallel: Inductors in AC Circuits: Phase Shift

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An all-in-one resource on everything electronics-related! For almost 30 years, this book has been a classic text for electronics enthusiasts. Now completely updated for today's technology, this latest version combines concepts, self-tests, and hands-on projects to offer you a completely repackaged and revised resource. This unique self-teaching guide features easy-to-understand explanations that are presented in a user-friendly format to help you learn the essentials you need to work with electronic circuits. All you need is a general understanding of electronics concepts such as Oh

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