Record Nr. UNINA9910974008303321 Autore Rosenberg Paul Titolo Audel practical electricity / / Paul Rosenberg, Robert Middleton Pubbl/distr/stampa Indianapolis, IN,: Wiley Pub., c2004 **ISBN** 9786610350414 9781280350412 1280350415 9780764574078 0764574078 Edizione [5th ed.] Descrizione fisica 1 online resource (480 p.) Collana Audel Technical Trades Series; v.19 Altri autori (Persone) MiddletonRobert Disciplina 621.319/24 Soggetti Electrical engineering Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali At head of title: Audel. "All new 5th ed." Rev. ed. of: Practical electricity / by Robert G. Middleton. c1988. Includes index. Nota di contenuto Introduction: Chapter 1:Magnetism and Electricity: Magnetic Poles: Experiments with Magnets; Formation of Permanent Magnets; Aiding and Opposing Magnetic Fields; Electromagnetism; Volts, Amperes, and Ohms; Electric and Magnetic Circuits; Understanding Electric Circuits; Kirchhoff's Voltage Law; Electrical Power; Quick-Check Instruments for Troubleshooting; Summary; Test Questions; Chapter 2: Conductors and Insulators; Classes of Conductors; Conducting Wire; Circular Mil-Foot; American Wire Gauge; Stranded Wires; Aluminum Wire; Line Drop; Temperature Coefficient of Resistance Earth (Ground) Conduction Conduction of Electricity by Air; Conduction of Electricity by Liquids; Insulators for Support of Wires; Classes of Insulation: Insulation Resistance: Plastic-Insulated Sheathed Cables: Summary; Test Questions; Chapter 3: Electric Circuits; Picture Diagrams and Schematic Diagrams; Voltage Polarities in Series Circuits; Voltage Measurements with Respect to Ground: Resistance of a Battery:

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Sommario/riassunto

Everything begins with the basics To succeed in any of today's electrical specialties, you must first understand the fundamentals. This concise guidebook, fully updated and revised to comply with the National Electrical Code,? provides that solid foundation in electrical theory, circuitry, and common applications. Whether you're pursuing an electrical career, need a refresher course, or simply want to understand the wiring in your home, you'll learn the basics from this book.* Examine the fundamentals of magnetism and electric-ity, conductors, insulators, and circuits* Study com