

1. Record Nr.	UNINA9910153121503321
Autore	Floyd Thomas L.
Titolo	Electronics fundamentals : circuits, devices, and applications // Thomas L. Floyd, David M. Buchla
Pubbl/distr/stampa	Harlow, England : , : Pearson, , [2014] Â©2014
ISBN	1-292-23880-1 1-292-03811-X
Edizione	[Eight, Pearson new international edition.]
Descrizione fisica	1 online resource (1,065 pages) : illustrations (some color), tables
Collana	Always Learning
Disciplina	621.381
Soggetti	Electronics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Cover -- Table of Contents -- 1. Quantities and Units -- 2. Voltage, Current, and Resistance -- 3. Ohm's Law, Energy, and Power -- 4. Series Circuits -- 5. Parallel Circuits -- 6. Series-Parallel Circuits -- 7. Magnetism and Electromagnetism -- 8. Introduction to Alternating Current and Voltage -- 9. Capacitors -- 10. RC Circuits -- 11. Inductors -- 12. RL Circuits -- 13. RLC Circuits and Resonance -- 14. Time Response of Reactive Circuits -- 15. Diodes and Applications -- 16. Transistors and Applications -- 17. The Operational Amplifier -- 18. Basic Op-Amp Circuits -- 19. Special-Purpose Op-Amp Circuits -- 20. Measurement, Conversion, and Control -- Table of Standard Resistor Values -- Capacitor Color Coding and Marking -- Norton's Theorem and Millman's Theorem -- Field-Programmable Analog Arrays (FPAAs) -- NI Multism for Circuit Simulation -- Glossary.
Sommario/riassunto	For DC/AC Circuits courses requiring a comprehensive, all inclusive text covering basic DC/AC Circuit fundamentals with additional chapters on Devices. This renowned text offers a comprehensive yet practical exploration of basic electrical and electronic concepts, hands-on applications, and troubleshooting. Written in a clear and accessible narrative, the Seventh Edition focuses on fundamental principles and their applications to solving real circuit analysis problems, and devotes six chapters to examining electronic devices.

