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Titolo	A Kitchen Course in Electricity and Magnetism // by David Nightingale, Christopher Spencer
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ISBN	3-319-05305-1
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (187 p.)
Disciplina	300 500 530 535.2
Soggetti	Electronic circuits Popular works Optics Electrodynamics Magnetism Magnetic materials Electronics Microelectronics Electronic Circuits and Devices Popular Science, general Classical Electrodynamics Magnetism, Magnetic Materials Electronics and Microelectronics, Instrumentation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Part 1 Home Electrostatics -- Background -- Kitchen experiments with static electricity -- Part 2 Current & Voltage -- Water analogy -- Galvani's frogs' legs -- Part 3 Magnetism -- Lodestones -- Further view of magnetism -- Part 4 Transistors -- Re-visit the diode -- The pn junction -- Experiment – diode graph.

Sommario/riassunto

This book will show you how to build a battery, detect static electricity, and construct a basic current meter, all using common items from your kitchen. Along the way, you'll learn about the meaning of "voltage" and "current," what makes an LED work, and the difference between AC and DC. The last chapter uses transistors -- the basic building blocks of every computer -- for lots of interesting experiments. With plenty of colorful illustrations, historical stories, and an easy, accessible style, *A Kitchen Course in Electricity and Magnetism* will be a great start for budding and amateur scientists who want to learn more about how the world works.
