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Titolo	Lecture Notes in Analog Electronics : Low Voltage Electronic Components // by Vano Litovski
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Descrizione fisica	1 online resource (429 pages)
Collana	Lecture Notes in Electrical Engineering, , 1876-1119 ; ; 1002
Disciplina	371.320973
Soggetti	Power electronics Solid state physics Optoelectronic devices Semiconductors Power Electronics Electronic Devices Optoelectronic Devices
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Introduction -- Electric current in semiconductors -- The p-n junction and the diode -- Bipolar transistor – BJT -- Junction field effect transistor – JFET -- Insulated gate field effect transistors - IGFET -- MESFET -- Optoelectronic components -- Magneto-electronic components -- Basics of semiconductor technology.
Sommario/riassunto	The book opens a magic miniature world of electronics to the reader. The book addresses what small means in terms of electronics and what clean means in terms of modern electronic technology. Consequently, the reader understands why the most advanced civilization of the ancient world – the Egyptians – was not capable to do electronics. The book also discusses functionalities of the low-voltage electronic components with the aim to implement them in electronic circuit design. At the same time, it also opens the space of electronic component design to the readers be it discrete or integrated. The book has an introduction section, 11 chapters, an appendix, index, and list of literature. Appendix A discusses a set of solved problems, Appendix B presents SPICE simulation examples, and Appendix C presents

component numbering in marketing environment.
