

Product category: **Recruitment, Reports and Resources**
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Book outlines simple electronic design

The author begins the book with an explanation of the working principles of semiconductor devices of various types

Dr. Vladimir Gurevich argues that it is possible to design and make automatic devices for industrial and power engineering uses without microcircuits and microprocessors or complex power supplies. To support this assertion he provides descriptions of tens of original automatic devices based on modern [discrete components](#), including high-voltage transistors and thyristors, miniature vacuum and high-power gas-filled reed switches. Such devices are simpler and, in many cases, more reliable than traditional devices.

To make the material more accessible to a broad spectrum of readers, the author begins the book with an explanation of the working principles of semiconductor devices of various types.

Through the description of elementary functional modules he then passes on to complete automatic devices.

The book finishes with extensive reference material on modern high-voltage bipolar, FET and IGBT transistors, thyristors and triacs and reed switches.

The book can be used as a textbook for studying principles and construction of automatic devices on discrete components.

It also provides a source of ideas and solutions for the development or modernisation of electronic switches, generators, timers, logic elements, regulators and voltage stabilisers, relay protection against overloads or emergency modes.

It provides a complete set of descriptions of the original devices ready for use.