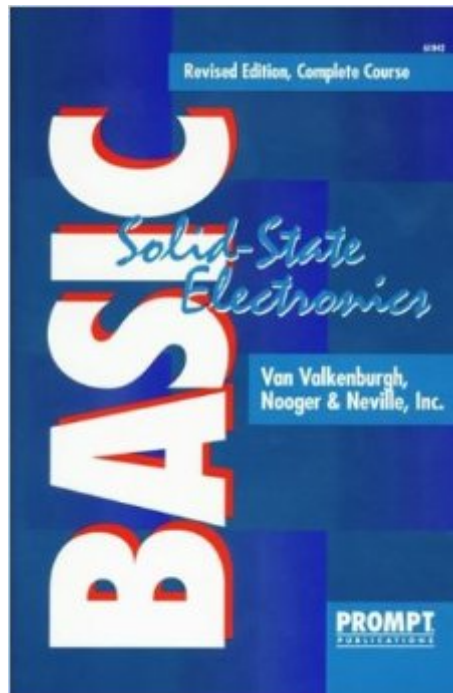


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# Basic Solid-State Electronics, Complete Course (5 Vols. In 1)



## Synopsis

Considered to be one of the best books on solid-state electronics on the market, this revised edition provides the reader with a progressive understanding of the elements that form various electronic systems. Electronic fundamentals covered in the illustrated, easy-to-understand text include semiconductors, power supplies, audio and video amplifiers, transmitters, receivers, and more.

## Book Information

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## Customer Reviews

This book is not as good as the authors previous effort Basic Electricity (ISBN 0790610418). The current book is divided into 5 volumes or parts: 1. Overview, Basic Concepts, intro semiconductors, power supplies, batteries 2. basic amplifiers, audio amplifiers, audio systems, hi-fi, video/if/rf amps + oscillators 3. Transmission: radio waves, antennas, AM, FM, TV transmission 4. Receivers: antennas, AM, FM, TV, video devices 5. digital electronics, computers, microprocessors Book has lots of diagrams like Basic Electricity but there are many more "block diagram" type drawings. Sometimes they describe what's going on inside the blocks but often these descriptions are too general or assume too much knowledge on the reader's part. Basic Electricity was much better that way in that they gave an exhaustive description of how everything worked. Amplifier discussion centers around BJTs with little mention of JFETs or MOSFETs. Not many exercises to do either unlike the revised and updated version of the Basic Electricity book. Good points - parts concerning Troubleshooting are very well done just like in Basic Electricity. Topic coverage is broad. Most electronics books these days barely cover any applications seemingly only paying heed to that great

device the "computer". Part 2 covers hi-fi stereo electronics. Very good discussion here. For those who DO want an in-depth discussion get the 24 part series Navy Electricity & Electronics Training Series (NEETS). It's excellent. It devotes the requisite number of pages to decently cover the topics. found on eBay & on the web. Van Valkenburgh et al.

BASIC ELECTRONICS (revised edition of 1992) by Van Valkenburgh, Nooger, and Neville, is a book on elementary electronics, suitable for the ages of 12 on up, including adults of all ages. The book has the dimensions, 6 inches X 9 inches X 1.5 inches. Every single page contains a pen & ink drawing. For example, the drawings include the Bohr model of the atom (page 1-4, a cross-section of an insulator showing electrons trying to pass through (page 1-14), drawings of the magnetic fields that surround a magnet and drawings of the magnetic fields that occur when two magnets are near each other, drawings of 3 light bulbs carrying 50, 120, or 220 volts (page 1-49), magnetic fields around a coiled electric wire (page 1-79), drawings of series circuits and of parallel circuits, drawings of sine waves (page 3-17), a diagram of build-up and decay of current in an inductive circuit (page 3-69), and plenty of circuit diagrams. The beauty of this book, is that where a concept needs to be described, there are descriptions and illustrations of an example, and also descriptions and illustrations of an alternate example. For example, on page 2-53, there is an illustration of a person measuring the resistance over a single light bulb, and another illustration of the same circuit, where the person measures the resistance over three light bulbs in a series. To repeat, what is excellent about this book is that, where there is a concept that needs to be described, the book describes it using two or more different examples or embodiments. The book is divided into five "volumes." Volume 1 includes these subjects: Conductors, insulators, semiconductors, magnetism, and how a meter works. Volume 2 includes: Electric circuits, Ohm's law, resistance, series circuits, parallel circuits, power.

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