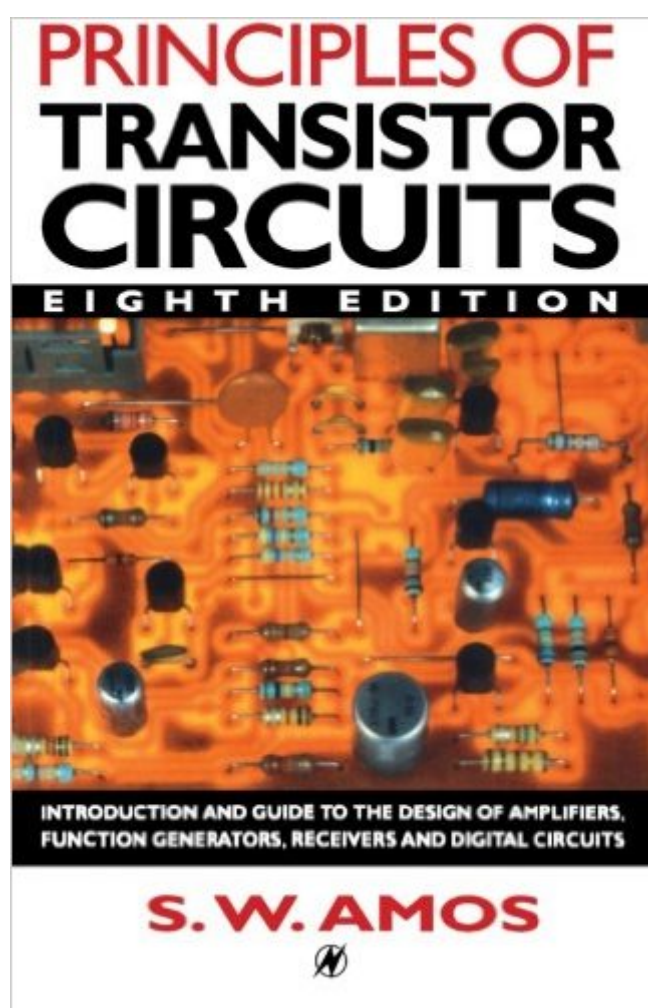


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# Principles Of Transistor Circuits, Eighth Edition: Introduction And Guide To The Design Of Amplifiers, Function Generators, Receivers And Digital Circuits



## Synopsis

For over thirty years, Stan Amos has provided students and practitioners with a text they could rely on to keep them at the forefront of transistor circuit design. This seminal work has now been presented in a clear new format and completely updated to include the latest equipment such as laser diodes, Trapatt diodes, optocouplers and GaAs transistors, and the most recent line output stages and switch-mode power supplies. Although integrated circuits have widespread application, the role of discrete transistors is undiminished, both as important building blocks which students must understand and as practical solutions to design problems, especially where appreciable power output or high voltage is required. New circuit techniques covered for the first time in this edition include current-dumping amplifiers, bridge output stages, dielectric resonator oscillators, crowbar protection circuits, thyristor field timebases, low-noise blocks and SHF amplifiers in satellite receivers, video clamps, picture enhancement circuits, motor drive circuits in video recorders and camcorders, and UHF modulators. The plan of the book remains the same: semiconductor physics is introduced, followed by details of the design of transistors, amplifiers, receivers, oscillators and generators. Appendices provide information on transistor manufacture and parameters, and a new appendix on transistor letter symbols has been included.

## Book Information

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## Customer Reviews

The text and math of this book seem fair until you try to match up what the text talks about with the figures. There are times when the text refers to figures that don't exist or refers to the wrong figure. There are figures that are supposed to have a part a and part b. The text compares the 'difference'

but there is only one figure and no parts a or b. Overall a very confusing book.

This book is a \*wonderful\* introduction to the understanding, analysis, and design of transistor circuits. The mathematics in this book is kept to a comfortable level and practical circuits are emphasised over the abstract transistor theory that's used in many textbooks. However, I cannot give this book 5 stars because of one flaw: the notation used in all the schematic diagrams is outdated. For example, resistors are marked with boxes rather than the more common zigzag lines. Also, digital circuit diagrams do not use the arrow/bullet notation, opting for a more difficult-to-read box for each logic function. Another drawback with this book is that FETs don't get treated in the same amount of depth as bipolar junction transistors. While BJTs are still in common use, FET circuits (particularly CMOS digital and analog ICs) are rapidly becoming commonplace and deserve additional treatment. These limitations should not keep you from enjoying this book if you wish to learn all about transistors.

People underestimate the transistor, especially the bipolar junction transistor, but as some of you may have found out the hard way, there's more to it. This book explains the math around the equivalent circuits, which is incredibly helpful to the reader, if the reader will take the time to understand the process. Some people criticize this book for favoring the BJT over the JFET, saying that the JFET is becoming more popular, however, the JFET is only popular in chip design and some other specific uses. Don't get me wrong it can be used for amplifying signals, however, it distorts the wave and its high input impedance limits the JFET from use in many other designs. Not only is the BJT simpler it is also better for use in RF design, AF design, and HF design. Take for example, three element oscillator design, the BJT's input and output impedances can be easily changed so that the design is less limited, however, the JFET with its high input impedance limits the design.

This is a wonderful book--4 star content--but the tables and diagrams are essential to its usability. To anyone looking for advice, I recommend this book

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