



# Principles of Analog Electronics

*Giovanni Saggio*

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## **Principles of Analog Electronics** Giovanni Saggio

In the real world, most signals are analog, spanning continuously varying values. Circuits that interface with the physical environment need to be able to process these signals. **Principles of Analog Electronics** introduces the fascinating world of analog electronics, where fields, circuits, signals and systems, and semiconductors meet. Drawing on the author's teaching experience, this richly illustrated, full-color textbook expertly blends theory with practical examples to give a clear understanding of how real electronic circuits work.

## **Build from the Essentials of Math, Physics, and Chemistry to Electronic Components, Circuits, and Applications**

Building a solid foundation, the book first explains the mathematics, physics, and chemistry that are essential for grasping the principles behind the operation of electronic devices. It then examines the theory of circuits through models and important theorems. The book describes and analyzes passive and active electronic devices, focusing on fundamental filters and common silicon-based components, including diodes, bipolar junction transistors, and metal-oxide-semiconductor field-effect transistors (MOSFETs). It also shows how semiconductor devices are used to design electronic circuits such as rectifiers, power supplies, clamper and clipper circuits, and amplifiers. A chapter explores actual applications, from audio amplifiers and FM radios to battery chargers.

## **Delve Deeper into Analog Electronics through Curiosities, Key Personalities, and Practical Examples**

Each chapter includes helpful summaries with key points, jargon, and terms, as well as exercises to test your knowledge. Practical tables illustrate the coding schemes to help identify commercial passive and active components. Throughout, sidebars highlight "curiosities," interesting observations, and examples that make the subject more concrete. This textbook offers a truly comprehensive introduction to the fundamentals of analog electronics, including essential background concepts. Taking a fresh approach, it connects electronics to its importance in daily life, from music to medicine and more.

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