

# Understand Electronics: A Teach Yourself Guide (Teach Yourself Series)

Malcolm Plant

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## **Understand Electronics: A Teach Yourself Guide (Teach Yourself Series)**

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Grasp the fundamental concepts of electronics as well as its more complex principles--no previous experience required!

Offering support and clarity throughout, *Understand Electronics* covers everything from voltage, dividers and resisors to logic gates and Boolean algebra. You will gain a solid understanding and feel confident in demonstrating your knowledge.

- One, five and ten-minute introductions to key principles to get you started.
- Lots of instant help with common problems and quick tips for success, based on the author's many years of experience.
- Tests in the book and online to keep track of your progress.
- Extra online articles at teachyourself.com to give you a richer understanding of electronics.
- The key concepts are demonstrated through practical projects.
- The carefully designed diagrams cement your understanding.
- Author Dr. Malcolm Plant is an authoritive voice with extensive teaching and research experience.

#### Topics include:

Electronics today and yesterday; The basis of electronics; Simple circuits and switches; Signals and systems; Potential dividers and resistors; Timers, oscillators and capacitators; Rectification and diodes; Amplifiers and transistors; Logic gates and Boolean algebra; Flip-flops and counters; Displays, encoders and decoders; Binary and hexadecimal arithmetic; Memories and silicon chips; Control systems; Instrumentation systems; Telecommunications systems



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