



# Practical Electronics: A Complete Introduction

By Andy Cooper, Malcolm Plant

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Now completely revised, *Practical Electronics: A Complete Introduction* covers the key areas of electronics you need to be confident in, whether you are a keen amateur hobbyist, an engineering student or a professional who wants to keep up to date. It outlines the basics in clear jargon-free English and provides added-value features like key ideas, memorable quotations and even lists of questions you might be asked in a seminar or exam.

The book has been updated to remove complex and abstract technical thought and replace it with practical information that will be essential for students and general readers alike. It builds on basic principles such as simple circuits and switches, going on to explain how basic components can be used to form versatile digital systems, which can be combined and programmed to create new functional systems. It also covers microprocessor technology and microcontroller chips, showing how to program microcontrollers for learners wishing to explore this new technology.

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#### About the Author

**Andy Cooper** worked with the BBC and Lego on some of the first computer control projects. He later coordinated the ICON team at Nottingham Trent University, which developed one of the first microcontroller systems for education. He has spent time working with British School Technology on national teacher training programmes and with Design and Technology primary and secondary teacher training at Nottingham Trent University.

More recently, Andy has developed electronics courses working with the Design and Technology Association, the Institute of Engineering and Technology and the National STEM Centre.

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