



# Electronic and Electrical Engineering: Principles and Practice

*Lionel Warnes*

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*Electrical and Electronic Engineering* provides a foundation for first year undergraduates and HND students in electrical and electronic engineering. It offers exceptional breadth of coverage and detail in a clear and accessible manner. Suitable for specialists and non-specialists, it makes no excessive demands on the reader's mathematical skills.

The basics of circuit theory and analysis are covered at the outset, followed by discrete devices and integrated circuits.

Electrical machines, power electronics and digital logic circuits are treated thoroughly in a central group of chapters.

Coverage of the essentials of computer architecture and networks is followed by a detailed chapter on microprocessors and microcontrollers.

The importance of modern communications technology is reflected in the comprehensive group of chapters devoted to analogue, digital and optical fibre communications systems and telephony.

Two concluding chapters deal with the important topic of electromagnetic compatibility and the basics of instrumentation and measurement that are essential for non-specialists.

This fully revised third edition of this popular text uses a wealth of practical exercises and examples making it ideal as a teaching resource or a study tool.

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