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This is a mandatory unit. Credit value: 10. This unit aims to give learners an understanding of the underlying physical principles on which electrical and electronic devices and circuits depend.

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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.

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Electronic and Electrical Engineering: Principles and ...

Electrical engineering is mainly concerned with the movement of energy and power in electrical form, and its generation and consumption. Electronics is mainly concerned with the manipulation of information, which may be acquired, stored, processed or transmitted in electrical form. Both depend on the same set of physical principles, though their applications differ widely.

Electrical And Electronic Principles - Semester Learning ...

Electromagnetic induction: principles eg induced electromotive force (emf), eddy currents, self and mutual inductance; applications (electric motor/generator eg series and shunt motor/generator; transformer eg primary and secondary current and voltage ratios); application of Faraday ' s and Lenz ' s laws

Unit 6: Electrical and Electronic Principles

Electrical and Electronic Principles. In response to comments from colleges requesting that the contents more closely match the objectives of the BTEC unit Electrical and Electronic Principles, some chapters have been removed and some exchanged with the companion book Further Electrical and Electronic Principles, ISBN 9780750687478.

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Fundamental Electrical and Electronic Principles

Electrical charge is a property of subatomic particles which can cause them to either attract or repel. Like charges repel and opposite charges attract. The electron is deemed to have a negative charge and the proton a positive charge. Not all subatomic particles contain a net charge; the neutron is an example (hence its name).

Unit 19: Electrical and Electronic Principles Unit Workbook 1

The book provides an introduction to the fundamentals of the electrical, electronic, and digital theory that underpins the principles of systems covered in the remainder of the book. For the reader that already has background knowledge of the fundamentals, the subsequent chapters can be read as individual subjects.

Aircraft Electrical and Electronic Systems: Principles ...

Electrical & Electronic Principles Aim and purpose. This unit aims to give learners an understanding of the underlying physical principles on which electrical and electronic devices and circuits depend. Unit introduction

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Electrical and Electronic Principles, 3 focuses on the principles involved in electrical and electronic circuits, including impedance, inductance, capacitance, and resistance. The book first deals with circuit elements and theorems, D.C. transients, and the series circuits of alternating current. Discussions focus on inductance and resistance in series, resistance and capacitance in series, power factor, impedance, circuit magnification, equation of charge, discharge of a capacitor, transfer ...

Electrical and Electronic Principles - 2nd Edition

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Unit 19: Electrical and Electronic Principles Unit Workbook 4

Electrical Principles and Technology for Engineering is John Bird's core text for

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Further Education courses at BTEC levels N11 and N111 and Advanced GNVQ. It is also designed to provide a comprehensive introduction for students on a variety of City & Guilds courses, and any students or technicians requiring a sound grounding in Electrical Principles and Electrical Power Technology.

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