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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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### **John Bird - Free**

Conductance (G, g) The siemens is the electrical conductance of a conductor in which a current of one ampere is produced by an electric potential difference of one volt.

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Electrical systems and electronic devices are present in almost every aspect of modern life " and it is electrical and electronic engineers who design, test and produce these systems and devices. This unit will develop learners'™ knowledge and understanding of the fundamental principles that

### **Unit 04 Principles of electrical and electronic engineering**

Basic Electronics. Semiconductor ... electrical field supplied by the battery. The electrons and holes combine causing the current to pass through the diode. When a diode is arranged in this way, it is said to be forward-biased. Forward-biased ("œopen door"•) ...

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