



Electrical and Electronic Principles and Technology

By John Bird BSc (Hons) CEng CMath CSci FIET MIEE FIIE FIMA FCollT

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In this book **John Bird** introduces electrical principles and technology through examples rather than theory - enabling students to develop a sound understanding of the principles needed by technicians in fields such as electrical engineering, electronics and telecommunications. No previous background in engineering is assumed, making this an ideal text for vocational courses at Level 2 and 3, foundation degree and introductory courses for undergraduates.

The book presents a logical topic progression rather than following the structure of a particular syllabus. However, the coverage of this new edition has been brought fully in line with the electrical and electronics units of the 2007 BTEC National specification. It is also designed to cover the requirements of the BTEC First specifications.

New material in this third edition includes brand new chapters on semiconductor diodes and transistors as well as added sections on batteries, fuel cells and alternative and renewable energies, relative and absolute voltages, self and mutual inductance, and virtual test and measuring instruments.

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Review

"[This book gives] information in a concise and accurate way and presents most of the information in 'worked example' form. This allows you to get your teeth into the subject without having to first of all wade through lots of over elaborate theory. An excellent 'dip' and learn book."

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From the Back Cover

An introductory textbook for students of electronics and electrical engineering

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About the Author

John Bird, the author of over 100 textbooks on engineering and mathematical subjects, is the former Head of Applied Electronics in the Faculty of Technology at Highbury College, Portsmouth, U.K. More recently, he has combined freelance lecturing at Portsmouth University, with technical writing and Chief Examiner responsibilities for City and Guilds Telecommunication Principles and Mathematics, and examining for the International Baccalaureate Organisation. **John Bird** is currently a Senior Training Provider at the Royal Naval School of Marine Engineering in the Defence College of Marine and Air Engineering at H.M.S. Sultan, Gosport, Hampshire, U.K. The school, which serves the Royal Navy, is one of Europe's largest engineering training establishments.

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