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## **KEY=ELECTRICAL - DAVIES BARRERA**

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### **HIGHER ELECTRICAL ENGINEERING**

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Longman This volume has been designed to cover the A1 and A2 stages of the Higher National Certificate in Electrical and Electronic Engineering. The contents correspond with much of the work in the Department of Education and Science outline syllabuses for HNC courses in England and Scotland and the text should also be useful for undergraduate CEI Part 1 and HND courses.

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### **HIGHER NATIONAL ENGINEERING CURRICULUM SUPPORT PACK**

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Routledge Used alongside the students' text, Higher National Engineering 2nd edition, this pack offers a complete suite of lecturer resource material and photocopiable handouts for the compulsory core units of the 2003 BTEC Higher Nationals in Engineering. Full coverage is given of the common core units for HNC/D (units 1 - 3) for all pathways, as well as the two different Engineering Principles units (unit 5) for mechanical and electrical/electronic engineering, and the additional unit required at HND for these pathways (Engineering Design - unit 6). The authors provide all the resources needed by a busy lecturer, as well as a bank of student-centred practical work and revision material, which will enable students to gain the skills, knowledge and understanding they require. This pack will save a course team many hours' work preparing handouts and assignments, and is freely photocopiable within the purchasing institution. The pack includes: \* Exercises to support and develop work in the accompanying student text \* Planned projects which will enable students to display a wide range of skills and use their own initiative \* Reference material for use as hand-outs \* Background on running the new HNC/HND courses \* Tutor's notes supporting activities in the students' book and resource pack

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### **EDEXCEL BTEC LEVEL 4/5 HNC/HND ELECTRICAL AND ELECTRONIC ENGINEERING (SPEC) BH023052**

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### **ELECTRICAL AND ELECTRONIC PRINCIPLES AND TECHNOLOGY**

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Taylor & Francis This practical resource introduces electrical and electronic principles and technology covering theory through detailed examples, enabling students to develop a sound understanding of the knowledge required 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 Levels 2 and 3, foundation degrees and introductory courses for undergraduates.

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### **FEEDBACK CONTROL THEORY FOR ENGINEERS**

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Springer Science & Business Media Textbooks in the field of control engineering have, in the main, been written for electrical engineers and the standard of the mathematics used has been relatively high. The purpose of this work is to provide a course of study in elementary control theory which is self-contained and suitable for students of all branches of engineering and of applied physics. The book assumes that the student has a knowledge of mathematics of A-level or O-2 level standard only. All other necessary pure and applied mathematics is covered for reference purposes in chapters 2-6. As a students' textbook it contains many fully worked numerical examples and sets of examples are provided at the end of all chapters except the first. The answers to these examples are given at the end of the book. The book covers the majority of the control theory likely to be encountered on H. N. C., H. N. D. and degree courses in electrical, mechanical, chemical and production engineering and in applied physics. It will also provide a primer in specialist courses in instrumentation and control engineering at undergraduate and post graduate level. Furthermore, it covers much of the control theory encountered in the graduateship examinations of the professional institutions, for example I. E. E. Part III (Advanced Electrical Engineering and Instrumentation and Control), I. E. R. E. Part 5 (Control Engineering) and the new C. E. I. Part 2 (Mechanics of Machines and Systems and Control Engineering).

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## **ELECTRICAL CIRCUIT THEORY AND TECHNOLOGY**

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Routledge *Electrical Circuit Theory and Technology* is a fully comprehensive text for courses in electrical and electronic principles, circuit theory and electrical technology. The coverage takes students from the fundamentals of the subject, to the completion of a first year degree level course. Thus, this book is ideal for students studying engineering for the first time, and is also suitable for pre-degree vocational courses, especially where progression to higher levels of study is likely. John Bird's approach, based on 700 worked examples supported by over 1000 problems (including answers), is ideal for students of a wide range of abilities, and can be worked through at the student's own pace. Theory is kept to a minimum, placing a firm emphasis on problem-solving skills, and making this a thoroughly practical introduction to these core subjects in the electrical and electronic engineering curriculum. This revised edition includes new material on transients and laplace transforms, with the content carefully matched to typical undergraduate modules. Free Tutor Support Material including full worked solutions to the assessment papers featured in the book will be available at <http://textbooks.elsevier.com/>. Material is only available to lecturers who have adopted the text as an essential purchase. In order to obtain your password to access the material please follow the guidelines in the book.

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## **BTEC LEVEL 4 HNC AND LEVEL 5 HND DIPLOMAS IN ELECTRICAL AND ELECTRONIC ENGINEERING**

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### **SPECIFICATION - ISSUE 3 BH025539**

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### **MATHS: A STUDENT'S SURVIVAL GUIDE**

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### **A SELF-HELP WORKBOOK FOR SCIENCE AND ENGINEERING STUDENTS**

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Cambridge University Press This self-help workbook covers mathematics essential to first-year undergraduate scientists and engineers. The second edition of this highly successful textbook has been completely revised and there is a totally new chapter on vectors. Mathematics underpins all science and engineering degrees, and this may cause problems for students whose understanding of the subject is weak. In this book Jenny Olive uses her extensive experience of teaching and helping students by giving a clear and confident presentation of the core mathematics needed by students starting science or engineering courses.

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## **ADVANCED ELECTRICAL ENGINEERING**

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Longman

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## **HIGHER ENGINEERING SCIENCE**

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Routledge *Higher Engineering Science* aims to provide students with an understanding of the scientific principles that underpin the design and operation of modern engineering systems. It builds a sound scientific foundation for further study of electronics, electrical engineering and mechanical engineering. The text is ideal for students, including numerous features designed to aid student learning and put theory into practice: \* Worked examples with step-by-step guidance and hints \* Highlighted key points, applications and practical activities \* Self-check questions included throughout the text \* Problems sections with full answers supplied Further worked examples, applications, case studies and assignments have also been incorporated into this second edition. Assuming a minimum of prior knowledge, the book has been written to suit courses with an intake from a range of educational backgrounds. The new edition has been designed specifically to cater for the compulsory core Engineering Science unit for HNC and HND qualifications, and updated throughout to match the syllabus of the new BTEC Higher National Engineering schemes from Edexcel. It will also prove ideal for introductory science modules in degree courses.

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## **ELECTRONIC AND ELECTRICAL ENGINEERING**

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### **PRINCIPLES AND PRACTICE**

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Red Globe Press This edition is designed for any introductory course in electronic/electrical engineering or technology at HNC/HND and first year undergraduate level.

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## HIGHER ELECTRONICS

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Routledge Higher Electronics is a comprehensive text for electronics undergraduates, covering analogue, digital electronics and microelectronics in a single volume - at a level suitable for most first and second year modules. The text is highly student-centred, providing numerous · worked examples with step-by-step guidance and hints · highlighted key facts and points of interest · self-check questions scattered through the text · problem sections (with answers supplied) It has been written to suit courses with an intake from a range of educational backgrounds, and a minimum of prior knowledge is assumed. Higher Electronics has been written to be fully in line with units 8-12 of the new BTEC Higher National specifications from Edexcel. This makes it the text of choice for all students following an electronics / electrical pathway through an HNC or HND. The student-centred text is ideal for the new course, and follows on especially well for students from a GNVQ background. The style and approach of Higher Electronics is consistent with the new text from Newnes, Higher National Engineering, which covers the mandatory units (units 1-7) of the new Higher National scheme.

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## APPLIED PHYSICS FOR ELECTRONIC TECHNOLOGY

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### A PROBLEM SOLVING APPROACH

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Hodder Arnold Increasing the awareness of the connection between physics and practical electrical problem solving is the main aim of this book. It achieves this by making the connection between fundamental physics and some of the most common practical electronic problems which engineers encounter. Other books tend to treat topics in isolation rather than compining them together in order to solve a real-life problem. Each chapter is of this unique book ends with further problems and fully worked solutions to help the student understand. The book contains seven selective topics which can be studied in isolation, such as Fibre Optic Technology and Electromagnetic Conduction. Mathematical theory is kept to a minimum; only the necessary equations required to solve the problems are presented, but each symbol presented in clearly defined. Provides both theoretical and practical problems Includes several graded problems Suitable for foundation level students and undergraduates embarking on an electrical or electronic engineering course

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## AN INTRODUCTION TO ELECTRICAL SCIENCE

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Routledge An Introduction to Electrical Science walks readers through the subject in a logical order, providing a historical overview alongside modern electrical theory and practice. Perfect for electrical trainees both during their training and once qualified. You will be guided through the subject in a topic by topic manner with each section building upon the one that came before it. By adding context to the principles of electrical science the topics become easier to both understand and remember, providing a grounding in the subject that will remain with you for life. With a wealth of examples, images and diagrams mastering difficult concepts will be a breeze. This book also has a companion site with an extra chapter, interactive multiple choice quizzes for each chapter and more at [www.routledge.com/cw/waygood](http://www.routledge.com/cw/waygood) Fully aligned to the 17th edition of the wiring regulations Free access to companion website material, including multiple-choice tests and extra chapters Two-colour layout helps navigation and highlights key points Visit the companion website at [www.routledge.com/cw/waygood](http://www.routledge.com/cw/waygood)

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## AN INTRODUCTION TO MECHANICAL ENGINEERING: PART 1

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CRC Press An Introduction to Mechanical Engineering is an essential text for all first-year undergraduate students as well as those studying for foundation degrees and HNDs. The text gives a thorough grounding in the following core engineering topics: thermodynamics, fluid mechanics, solid mechanics, dynamics, electricals and electronics, and materials scien

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## ENGINEERING SCIENCE

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### FOR FOUNDATION DEGREE AND HIGHER NATIONAL

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Routledge Focusing primarily on core topics in mechanical and electrical science, students enrolled on a wide range of higher education engineering courses at undergraduate level will find Engineering Science, second edition, an invaluable aid to their learning. With updated and expanded content, this new edition covers sections on the mechanics of materials, dynamics, thermodynamics, electrostatics and electromagnetic principles, and a.c./d.c. circuit theory. Entirely new sections are devoted to the study of gyroscopes and the effect of applied torques on their behaviour, and the use of Laplace transformation as a tool for modelling complex networks of inductance, capacitance and resistance. In addition, a new overview of the decibel (dB) introduces a handy technique for expressing logarithmic ratios. Knowledge-check and review questions, along with activities, are included throughout the book, and the necessary background mathematics is integrated alongside the appropriate areas of engineering. The result is a clear and easily accessible textbook that encourages independent study and covers the essential scientific principles that students will meet at this level. The book is supported with a companion website for students and lecturers at [www.key2engineeringsscience.com](http://www.key2engineeringsscience.com), and it includes: • Solutions to the Test Your Knowledge and Review Questions in the book • Further guidance on

Essential Mathematics with introductions to vectors, vector operations, the calculus and differential equations, etc. • An extra chapter on steam properties, cycles and plant • Downloadable SCILAB scripts that help simplify some of the advanced mathematical content • Selected illustrations from the book

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### **ELECTRICAL AND ELECTRONIC PRINCIPLES AND TECHNOLOGY**

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Routledge This book is written for the 6,000 BTEC National Engineering students who follow the electrical pathway each year. The course has a brand new syllabus for 2010 and Electrical and Electronic Principles and Technology has been fully updated to reflect these changes. In this 4th edition, John Bird introduces electrical principles and technology through examples rather than theory covering - enabling level three students to develop a sound understanding of the principles needed for careers in electrical engineering, electronics and telecommunications. The book includes numerous worked problems, multiple-choice and short-answer questions, exercises and revision tests and is supported with free online instructor's and solutions manuals. Matched to the latest 2010 BTEC Engineering syllabus Student-friendly approach with numerous worked problems, multiple-choice and short-answer questions, exercises and revision tests In colour and supported with free online instructor's and solutions manuals

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### **FURTHER ELECTRICAL AND ELECTRONIC PRINCIPLES**

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Routledge Further Electrical and Electronic Principles is a core text for pre-degree courses in electrical and electronic engineering courses. The coverage of this new edition has been brought in line with the specialist unit 'Further Electrical Principles' of the 2007 BTEC National Engineering specification from Edexcel. As the book follows a logical topic progression rather than a particular syllabus, it is also suitable for other Level 3 students on vocational courses such as Vocational AS/A Level, City & Guilds courses and NVQs. More advanced material has also been included, making this text also suitable for HNC/HND and foundation degree courses. Each chapter starts with learning outcomes tied to the syllabus. All theory is explained in detail and backed up with numerous worked examples. Students can test their understanding with end of chapter assignment questions for which answers are provided. The book also includes suggested practical assignments and handy summaries of equations. In this new edition, the layout has been improved and colour has been added to make the book more accessible for students. The textbook is supported with a free companion website featuring supplementary worked examples and additional chapters. <http://books.elsevier.com/companions/9780750687478>

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### **FOUNDATION MATHS**

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Pearson Higher Ed Were you looking for the book with access to MyMathLab? This product is the book alone, and does NOT come with access to MyMathLab. Buy Foundation Maths with MyMathLab access card 5e (ISBN 9780273730767) if you need access to the MyLab as well, and save money on this brilliant resource. Foundation Maths has been written for students taking higher and further education courses who have not specialised in mathematics on post-16 qualifications and need to use mathematical tools in their courses. It is ideally suited to those studying marketing, business studies, management, science, engineering, social science, geography, combined studies and design. It will be useful for those who lack confidence and who need careful, steady guidance in mathematical methods. For those whose mathematical expertise is already established, the book will be a helpful revision and reference guide. The style of the book also makes it suitable for self-study and distance learning. Need extra support? This product is the book alone, and does NOT come with access to MyMathLab. This title can be supported by MyMathLab, an online homework and tutorial system which can be fully integrated into an instructor's course. You can benefit from MyMathLab at a reduced price by purchasing a pack containing a copy of the book and an access card for MyMathLab: Foundation Maths with MyMathLab access card 5e (ISBN 9780273730767). Alternatively, buy access to MyMathLab and the eText - an online version of the book - online at [www.mymathlab.com](http://www.mymathlab.com). For educator access, contact your Pearson Account Manager. To find out who your Account Manager is, visit [www.pearsoned.co.uk/relocator](http://www.pearsoned.co.uk/relocator)

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### **ELECTRICAL LEVEL 4**

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Pearson Completely updated to the 2020 NEC®! Features a highly illustrated design, technical hints and tips from industry experts, review questions and a whole lot more! Key content includes: Load Calculations- Feeders and Services, Health Care Facilities, Standby and Emergency Systems, Basic Electronic Theory, Fire Alarm Systems, Specialty Transformers, Advanced Controls, HVAC Controls, Heat Tracing and Freeze Protection, Motor Operation and Maintenance, Medium-Voltage Terminations/Splices, Special Locations, and Fundamentals of Crew Leadership.

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### **ELECTRICAL AND ELECTRONIC ENGINEERING PRINCIPLES**

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Prentice Hall Covers the requirements of BTEC and similar courses to Diploma level

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**ENGINEERING MATERIALS TECHNOLOGY**

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Elsevier Engineering Materials Technology, Second Edition discusses the underlying principles of materials selection in mechanical and production engineering. The book is comprised of 20 chapters that are organized into five parts. The text first covers the structure of materials, such as metals, alloys, and non-metals. The second part deals with the properties of materials, which include fracture, fatigue, and creep. The third and fourth parts discuss the characteristics of metals and non-metals, respectively. The last part deals with the selection process; this part takes into consideration the various properties of materials and the processes it goes through. The book will be of great use to students and practitioners of mechanical and production engineering.

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**GUIDE TO RESEARCH PROJECTS FOR ENGINEERING STUDENTS**

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**PLANNING, WRITING AND PRESENTING**

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CRC Press Presents an Integrated Approach, Providing Clear and Practical Guidelines Are you a student facing your first serious research project? If you are, it is likely that you'll be, firstly, overwhelmed by the magnitude of the task, and secondly, lost as to how to go about it. What you really need is a guide to walk you through all aspects of the research

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**MEASUREMENT AND INSTRUMENTATION SYSTEMS**

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Butterworth-Heinemann This book provides a coherent and integrated approach to measurement and instrumentation designed for students following HND, HNC, BEng and BSc courses in mechanical engineering, electrical/electronic engineering, chemical engineering, instrumentation and control, and applied physics. As well as being an accessible introduction to this important and wide-ranging subject, Bolton's book also provides a comprehensive coverage which will be of use for reference and revision, and plenty of problems at the end of each chapter.

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**MECHANICAL ENGINEERING PRINCIPLES**

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Routledge "Mechanical Engineering Principles offers a student-friendly introduction to core engineering topics that does not assume any previous background in engineering studies, and as such can act as a core textbook for several engineering courses. Bird and Ross introduce mechanical principles and technology through examples and applications rather than theory. This approach enables students to develop a sound understanding of the engineering principles and their use in practice. Theoretical concepts are supported by over 600 problems and 400 worked answers. The new edition will match up to the latest BTEC National specifications and can also be used on mechanical engineering courses from Levels 2 to 4"--

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**CODE OF PRACTICE FOR IN-SERVICE INSPECTION AND TESTING OF ELECTRICAL EQUIPMENT**

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Inst of Engineering & Technology This is the 4th edition of the IET's Code of Practice for Inservice Inspection and Testing of Electrical Equipment. The book has been revised to take account of the PAT aspects of Professor Löfstedt's report and the HSE view that promotes a proportionate riskbased approach when assessing the safety of electrical equipment and appliances. This will help users, those responsible for the equipment and testers of the equipment to maintain safety. HSE encourages the adoption of this approach and the changes will also be reflected in the City & Guilds 2377 course. The Code of Practice enables duty holders to understand the requirements placed on them in law to maintain electrical equipment, using correct documentation, that falls under their control and to understand what inspection and testing involves. It also gives guidance to those carrying out inservice inspection and testing of electrical equipment (PAT).

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**ELECTRICAL POWER DISTRIBUTION AND TRANSMISSION**

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Pearson College Division Written in a down-to-earth, easy-to-understand manner, Electrical Power Distribution and Transmission is a state-of-the-art book that offers readers a practical orientation and introduction to electrical power distribution and transmission. Outstanding features, which have been widely applauded, include real-world aspects of the field (readers are exposed to theory and practice they will use in their careers); organized into three easy to understand sections, including History, Electrical Power Distribution, and Electrical Power Transmission; thorough coverage of subject concepts; and offers up-to-date material with historical perspective. This comprehensive book is appropriate for courses in electrical power distribution and/or transmission. Readers will find previous courses in dc/ac circuits, algebra, and trigonometry to be a plus.

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**BTEC NATIONAL ENGINEERING**

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Routledge All the mandatory units of the 2010 BTEC Level 3 Engineering specification, plus selected popular optional units Clear, full colour layout and numerous activities, worked examples and questions

with answers, make it easy for students to learn and revise for their exams Content you can trust - written by two lecturers with over 50 years combined experience of designing and delivering engineering qualifications Free student website with interactive quizzes, downloads and additional material o support learning The third edition of this bestselling textbook ensures that all the mandatory units of 2010 BTEC Level 3 Engineering specification are fully covered in a way that encourages students to explore engineering for themselves, developing the expertise and knowledge required at this level. Key points and definitions highlight the most important concepts and hundreds of activities and worked examples help put theory in context. Questions throughout the text, with answers provided, allow students to test their knowledge as they go, while end of unit review questions are ideal for exam revision and set course work. For lecturers a Tutor Support DVD-ROM is available to help with the delivery of the programme: BTEC National Engineering Tutor Support Material, ISBN 978-0-08-096683-0. Units covered: Unit 1 - Health and Safety in the Workplace, Unit 2 - Communications for Engineering Technicians, Unit 3 - Engineering Project, Unit 4 - Mathematics for Engineering technicians, Unit 5 - Mechanical Principles and Applications, Unit 6 - Electrical and Electronic Principles, Unit 7 - Business Operations in Engineering, Unit 8 - Engineering Design. A free student website, including answers to all activities, is available at <http://www.key2study.com/btecnat> and features: Interactive quizzes with automatic marking and feedback A free comprehensive 2D CAD package for downloading A variety of spreadsheet tools for solving common engineering problems Useful engineering data summaries Extensive Visio symbol libraries for engineering drawing/CAD Drawing templates and sample drawings in industry-standard format Additional material to support learning activities and assignments Book chapter: Arithmetic and Trigonometric Fundamentals 'Test your Knowledge' and 'End of Unit Review' questions

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## **ENGINEERING PROBLEMS**

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### **HIGHER ELECTRICAL ENGINEERING**

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This volume has been designed to cover the A1 and A2 stages of the Higher National Certificate in Electrical and Electronic Engineering. The contents correspond with much of the work in the Department of Education and Science outline syllabuses for HNC courses in England and Scotland and the text should also be useful for undergraduate CEI Part 1 and HND courses.

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### **PRACTICAL ENGINEERING DESIGN**

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CRC Press Every engineer must eventually face their first daunting design project. Scheduling, organization, budgeting, prototyping: all can be overwhelming in the short time given to complete the project. While there are resources available on project management and the design process, many are focused too narrowly on specific topics or areas of engineering. Practical Engineering Design presents a complete overview of the design project and beyond for any engineering discipline, including sections on how to protect intellectual property rights and suggestions for turning the project into a business. An outgrowth of the editors' broad experience teaching the capstone Engineering Design course, Practical Engineering Design reflects the most pressing and often-repeated questions with a set of guidelines for the entire process. The editors present two sample project reports and presentations in the appendix and refer to them throughout the book, using examples and critiques to demonstrate specific suggestions for improving the quality of writing and presentation. Real-world examples demonstrate how to formulate schedules and budgets, and generous references in each chapter offer direction to more in-depth information. Whether for a co-op assignment or your first project on the job, this is the most comprehensive guide available for deciding where to begin, organizing the team, budgeting time and resources, and, most importantly, completing the project successfully.

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### **INDUSTRIAL COMMUNICATION SYSTEMS**

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CRC Press The Industrial Electronics Handbook, Second Edition, Industrial Communications Systems combines traditional and newer, more specialized knowledge that helps industrial electronics engineers develop practical solutions for the design and implementation of high-power applications. Embracing the broad technological scope of the field, this collection explores fundamental areas, including analog and digital circuits, electronics, electromagnetic machines, signal processing, and industrial control and communications systems. It also facilitates the use of intelligent systems—such as neural networks, fuzzy systems, and evolutionary methods—in terms of a hierarchical structure that makes factory control and supervision more efficient by addressing the needs of all production components. Enhancing its value, this fully updated collection presents research and global trends as published in the IEEE Transactions on Industrial Electronics Journal, one of the largest and most respected publications in the field. Modern communication systems in factories use many different—and increasingly sophisticated—systems to send and receive information. Industrial Communication Systems spans the full gamut of concepts that engineers require to maintain a well-designed, reliable communications system that can ensure successful operation of any production process. Delving into the subject, this volume covers: Technical principles Application-specific areas Technologies Internet programming Outlook, including trends and expected challenges Other volumes in the set: Fundamentals of Industrial Electronics Power Electronics and Motor Drives Control and Mechatronics Intelligent Systems

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## **BTEC NATIONAL NII MATHEMATICS FOR TECHNICIANS**

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### **MECHATRONICS**

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Pearson Higher Ed Mechatronics is the integration of electronic engineering, mechanical engineering, control and computer engineering. From auto-focus cameras to car engine management systems, and from state-of-the-art robots to the humble washing machine, Mechatronics has a hand in them all. This book presents a clear and comprehensive introduction to the area. It is practical and applied so it helps you to comprehend and design mechatronic systems. By also explaining the philosophy of Mechatronics it provides you with a frame of understanding to develop a truly interdisciplinary and integrated approach to engineering. Mechatronics is essential reading for students requiring an introduction to this exciting area at undergraduate and higher diploma level. New Content includes: An expanded first chapter gives a comprehensive introduction to the subject. Includes more in-depth discussion of op-amps, mechanisms, and motor selection to improve clarity and extend applications. A new Appendix on Electrical Circuit Analysis is included to make the basic methods used for both d.c. and a.c. circuit analysis easily accessible to readers.

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### **ELECTRICAL PRINCIPLES IV**

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Electrical principles is a mandatory part of all HNC/HND courses in electrical, electronic, communication and computer engineering. Derek Green's volume provides the student with a comprehensive coverage of Level 1V topic in the BTEC Bank of Objectives. points and features over 130 exercises to improve student understanding. and HND BTEC courses in electrical and electronic engineering - electronic principles is a mandatory topic at level 1V.

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### **HIGHER ELECTRICAL PRINCIPLES**

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Addison-Wesley This edition has been completely revised and expanded to cover all the electrical principles a student needs in both years of a HNC/D in engineering. The expanded coverage also makes it very suitable as an introductory text for degree courses in electrical and electronic engineering.

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### **HIGHER NATIONAL ENGINEERING**

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Routledge Full coverage of the core units of the new Higher National Certificate / Higher National Diploma in Engineering. · Written specifically for the new syllabus · Encourages independent study · Clear and straightforward text · Knowledge-check questions and activities throughout · Includes chapters for electrical and mechanical principles · The key to success for all HNC/HND Engineering students For the first time, the HNC/HND programme is now based around a group of mandatory units. Higher National Engineering is a complete text for the six main core units, including the two different Engineering Principles units (mechanical and electrical). Like the syllabus itself, this book is ideal for students progressing to HNC/HND from GNVQs, as well as A-level and BTEC National. Students are the first consideration throughout, with a separate section on the Project, and applied maths integrated alongside the appropriate areas of engineering studies, as well as being summarised in a separate chapter. The approach of this text follows the successful formula pioneered by Mike Tooley in his two core texts for GNVQ. The book is fully in line with the Phase 2 units published in June 1998, but remains applicable for Phase 1. A full syllabus match grid appears in the book. FORTHCOMING Higher National Engineering: Tutor's Resource Pack A bank of photocopiable resources. Due: January 1999. Provision price: £60 ISBN: 0-7506-3649-1 A core text covering the core units of the new HND/HNC syllabuses Designed to encourage student-centred learning and independent study Numerous activities and problems throughout

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### **ELECTRICAL AND MAGNETIC PROPERTIES OF MATERIALS**

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Addison-Wesley Longman Written for students taking BTEC HNC and HND courses in electrical and electronic engineering, this book introduces the electric and magnetic properties of materials. It ranges from the basic concepts of atomic structure to the electrical properties of metals, semiconductors and insulators.

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### **FURTHER ELECTRICAL AND ELECTRONIC PRINCIPLES**

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