

Engineering Mathematics

By John Bird

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- Real-world situations and engineering examples put the theory into context

John Bird’s approach to mathematics, based on numerous worked examples supported by problems, is ideal for students of a wide range of abilities. Theory is kept to a minimum, with the emphasis firmly placed on problem-solving skills, making this a thoroughly practical introduction to the mathematics engineering that students need to master.

This book presents a logical topic progression rather than following the structure of a particular syllabus, and is suitable for all Level 3 vocational students, early Foundation Degree students and for any introductory course involving engineering mathematics. However, the coverage has been carefully matched to the mathematics units within the 2010 Level 2 and 3 BTEC National Specifications.

In this sixth edition there is new material on logarithms, exponential functions, vectors, and methods of alternating waveforms. The book now includes even more problems to work through.

Ideal for use as tests or homework, full solutions to the revision tests are supplied on the accompanying instructor’s website.

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Editorial Review

From the Back Cover

. Updated for the 2010 BTEC Nationals in Engineering syllabus . This book contains thousands of worked examples and revision tests . Supported with online tutor support materials, including an instructors guide and editable PowerPoint Presentation slides

Mathematics is a key element in determining success for the Edexcel BTEC National Engineering courses. Updated for the 2010 BTEC Nationals in Engineering syllabus, Engineering Mathematics, 6e by John Bird covers the main elements of mathematics in the core, mechanical and Electrical/ Electronic Units. There are currently over 13,000 BTEC National Engineering students in the UK.

Theory is introduced in each chapter by a simple outline of essential definitions, formulae, laws and procedures. This new, sixth edition will also be supported with online tutor support materials. These include an Instructors Guide which will give full solutions and marking schemes for each of the Revision Tests contained in the text.

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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