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a student friendly introduction to core engineering topics this book introduces mechanical principles and technology through examples and applications enabling students to develop a sound understanding of both engineering principles and their use in practice these theoretical concepts are supported by 400 fully worked problems 700 further problems with answers and 300 multiple choice questions all of which add up to give the reader a firm grounding on each topic the new edition is up to date with the latest btec national specifications and can also be used on undergraduate courses in mechanical civil structural aeronautical and marine engineering together with naval architecture a further chapter has been added on revisionary mathematics since progress in engineering studies is not possible without some basic mathematics knowledge further worked problems have also been added throughout the text new chapter on revisionary mathematics student friendly approach with numerous worked problems multiple choice and short answer questions exercises revision tests and nearly 400 diagrams supported with free online material for students and lecturers readers will also be able to access the free companion website where they will find videos of practical demonstrations by carl ross full worked solutions of all 700 of the further problems will be available for both lecturers and students for the first time

this book is about the role of some engineering principles in our everyday lives engineers study these principles and use them in the design and analysis of the products and systems with which they work the same principles play basic and influential roles in our everyday lives as well whether the concept of entropy the moments of inertia the natural frequency the coriolis acceleration or the electromotive force the roles and effects of these phenomena are the same in a system designed by an engineer or created by nature this shows that learning about these engineering concepts helps us to understand why certain things happen or behave the way they do and that these concepts are not strange phenomena invented by individuals only for their own use rather they are part of our everyday physical and natural world but are used to our benefit by the

engineers and scientists learning about these principles might also help attract more and more qualified and interested high school and college students to the engineering fields each chapter of this book explains one of these principles through examples discussions and at times simple equations

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in this book john bird and carl ross introduce mechanical principles and technology through examples and applications enabling students to develop a sound understanding of the principles needed by professional engineers and technicians no previous background in engineering is assumed and theoretical concepts are supported by over 600 problems and worked examples this completely new text is designed to match a wide range of pre degree courses and provide an accessible introduction for undergraduates with no previous background in engineering studies the authors have ensured syllabus match for the leading uk courses at this level avce optional units mechanical engineering principles and further mechanical engineering principles and the new btec national unit mechanical principles

this text provides a clear and concise understanding of the principles and applications of chemical engineering using a rigorous yet easy to follow presentation the coverage is broad and it includes all the relevant concepts such as mass and energy balances mass transfer chemical reaction engineering and many more elucidation of the principles is further reinforced by examples and practice problems with detailed

solutions firmly grounded in the fundamentals the book maximizes readers capacity to take on new problems and challenges in the field with confidence and conviction providing a ready reference and review of essential principles and their applications in chemical engineering the book is ideal for undergraduate chemical engineering students as well as practicing engineers preparing for the engineering license exams fe and pe in usa and abroad

for undergraduate introductory or survey courses in electrical engineering electrical engineering principles and applications 5 ehelps students learn electrical engineering fundamentals with minimal frustration its goals are to present basic concepts in a general setting to show students how the principles of electrical engineering apply to specific problems in their own fields and to enhance the overall learning process circuit analysis digital systems electronics and electromechanics are covered a wide variety of pedagogical features stimulate student interest and engender awareness of the material s relevance to their chosen profession

a student friendly introduction to core engineering topics this book introduces mechanical principles and technology through examples and applications enabling students to develop a sound understanding of both engineering principles and their use in practice these theoretical concepts are supported by 400 fully worked problems 700 further problems with answers and 300 multiple choice questions all of which add up to give the reader a firm grounding on each topic the new edition is up to date with the latest btec national specifications and can also be used on undergraduate courses in mechanical civil structural aeronautical and marine engineering together with naval architecture a further chapter has been added on revisionary mathematics since progress in engineering studies is not possible without some basic mathematics knowledge further worked problems have also been added throughout the text new chapter on revisionary mathematics student friendly approach with numerous worked problems multiple choice and short answer questions exercises revision tests and nearly 400 diagrams supported with free online material for students and lecturers readers will also be able to access the free companion website where they will find videos of practical demonstrations by carl ross full worked solutions of all 700 of the further problems will be available for both lecturers and students for the first time

drawing on multidisciplinary perspectives from engineering economics business science and human behavior

this text presents an unrivalled introduction to how engineering practice can contribute to sustainable development varied approaches for assessing the sustainability of engineering and other human activities are presented in detail and potential solutions to meet key challenges are proposed with an emphasis on those that require engineering skills each concept and approach is supported by mathematical representation solved problems real world examples and self study exercises topics covered range from introductory material on the nature of sustainability to more advanced approaches for assessment and design prerequisites for each chapter are clearly explained so the text can be adapted to meet the needs of students from a range of backgrounds software tutorials project statements and solutions lecture slides and a solutions manual accompany the book online making this an invaluable resource for courses in sustainable engineering as well as a useful reference for industry practitioners

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