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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

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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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provides a foundation in the basics of circuits electronics analog and digital and electromechanics this book covers circuits electronics and electrical machines and shows how electrical engineering

concepts are applied in other engineering fields

mechanical engineering principles offers a student friendly introduction to core engineering topics this book introduces mechanical principles and technology through examples and applications rather than theory john bird and carl ross do not assume any previous background in engineering studies and as such this book can act as a core textbook for several engineering courses this approach enables students to develop a sound understanding of engineering principles and their use in practice these theoretical concepts are supported by 320 fully worked problems nearly 600 further problems with answers and 276 multiple choice questions giving 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 chapter has been added at the beginning on revisionary mathematics since progress in engineering studies is not possible without some basic mathematics knowledge minor modifications and some further worked problems have also been added throughout the text colour layout helps navigation and highlights key points 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 at routledge.com/bird where they will find videos of practical demonstrations by carl ross full worked solutions of all 600 of the further problems will be available for lecturers instructors use as will the full solutions and marking scheme for the 8 revision tests

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