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a broad yet concise introduction to the field of engineering for undergraduate

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discover the human side to the discipline that is profoundly more than nuts and bolts focusing on the impact of engineering on society and the world mccarthy details the development of the discipline explains what makes an engineering mind and shows

how every aspect of our lives has been engineered from gadgets to our national infrastructure long considered tinkerers problem solvers and visionaries engineers hold the keys to our real and virtual future

engineering science will help you understand the scientific principles involved in engineering focusing primarily upon core mechanical and electrical science topics students enrolled on an engineering foundation degree and higher national engineering qualification will find this book an invaluable aid to their learning the subject matter covered includes sections on the mechanics of solids dynamics thermodynamics electrostatics and electromagnetic principles and ac and dc circuit theory knowledge check questions summary sections and activities are included throughout the book and the necessary background mathematics is applied and integrated alongside the appropriate areas of engineering being studied the result is a clear straightforward and easily accessible textbook that encourages independent study and covers most of the scientific principles that students are likely to meet at this level it is supported with a companion website at key2engineeringscience com for students and lecturers solutions to the test your knowledge questions in the book further guidance on essential mathematics extra chapters on vapour properties cycles and plants downloadable scilab scripts that helps simplify advanced mathematical content

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this text is for engineering students and a reference for practising engineers especially those who wish to explore python this new edition features 18 additional exercises and the addition of rational function interpolation brent s method of root finding was

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