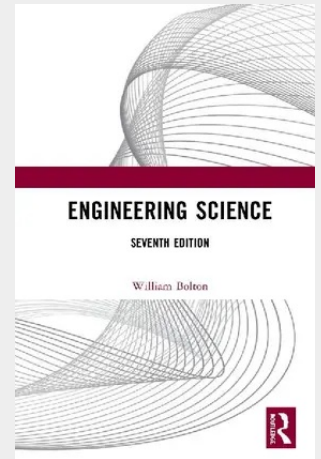


Engineering Science

Engineering Science is a comprehensive textbook suitable for all vocational and pre-degree courses in engineering, being fully in line with the latest vocational courses at Level 2 and leading into Level 3. Taking a subject-led approach, engineering students will find the essential scientific principles necessary for their studies, developed topic by topic. Unlike most textbooks available for this field, it goes beyond the core science to include applications in the real world and the mechanical and electrical principles required for the majority of courses. It is supported by numerous worked examples and problems, with a complete set of answers. This new edition gives a detailed consideration of the basic arithmetic, algebraic and graphical methods needed in engineering courses so that it conforms completely with sections A and B of the BTEC Level 2 unit, and it provides the basic tools for the science that follows. A new chapter introduces the basic principles of calculus and more material is given on applications. This includes typical properties of materials and a discussion on the way properties of materials over the ages have changed the basic structures of bridges, weightlessness, snooker, thermal insulation and LEDs, as well as buildings, with a particular look at the engineering behind the collapse of the World Trade Centre.

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