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The information provided should be seen as an interpretation of the brief and a possible solution to a past question offered by an

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experienced engineer with knowledge of the examiners' expectations (i.e. it's an individual's interpretation of the brief leading to one of a number of possible solutions rather than the definitive "correct" or "model" answer).

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The obvious solution for the factory area is trusses. Observing the later requirement to comment on the installation of cranes, a portal frame, though possible, could lead to questions about deflections being inappropriate for crane operations. 60 m span is not a problem for a truss.

The challenges facing humanity in the 21st century include climate change, population growth, overconsumption of resources, overproduction of waste and increasing energy demands. For construction practitioners, responding to these challenges means creating a built environment that provides accommodation and infrastructure with better whole-life performance using low volumes of primary materials, less non-renewable energy, wastefulness and causing fewer disturbances to the natural environment. Concrete is ubiquitous in the built environment. It is therefore essential that it is used in the most sustainable way so practitioners must become aware of the range of sustainable concrete solutions available for construction. While sustainable development has been embedded into engineering curricula, it can be difficult for students

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and academics to be fully aware of the innovations in sustainable construction that are developed by the industry. Sustainable Concrete Solutions serves as an introduction to and an overview of the latest developments in sustainable concrete construction. It provides useful guidance, with further references, to students, researchers, academics and practitioners of all construction disciplines who are faced with the challenge of designing, specifying and constructing with concrete.

This book focuses on the seismic design of building structures and their foundations to Eurocode 8. It covers the principles of seismic design in a clear but brief manner and then links these concepts to the provisions of Eurocode 8. It addresses the fundamental concepts related to seismic hazard, ground motion models, basic dynamics, seismic analysis, siting considerations, structural layout, and design philosophies, then leads to the specifics of Eurocode 8. Code procedures are applied with the aid of walk-through design examples which, where possible, deal with a common case study in most chapters. As well as an update throughout, this second edition incorporates three new and topical chapters dedicated to specific seismic design aspects of timber buildings and masonry structures, as well as base-isolation and supplemental damping. There is renewed

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interest in the use of sustainable timber buildings, and masonry structures still represent a popular choice in many areas. Moreover, seismic isolation and supplemental damping can offer low-damage solutions which are being increasingly considered in practice. The book stems primarily from practical short courses on seismic design which have been run over a number of years and through the development Eurocode 8. The contributors to this book are either specialist academics with significant consulting experience in seismic design, or leading practitioners who are actively engaged in large projects in seismic areas. This experience has provided significant insight into important areas in which guidance is required.

This enlightening textbook for undergraduates on civil engineering degree courses explains structural design from its mechanical principles, showing the speed and simplicity of effective design from first principles. This text presents good approximate solutions to complex design problems, such as "Wembley-Arch" type structures, the design of thin-walled structures, and long-span box girder bridges. Other more code-based textbooks concentrate on relatively simple member design, and avoid some of the most interesting design problems because code compliant solutions are complex. Yet these problems can

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be addressed by relatively manageable techniques. The methods outlined here enable quick, early stage, "ball-park" design solutions to be considered, and are also useful for checking finite element analysis solutions to complex problems. The conventions used in the book are in accordance with the Eurocodes, especially where they provide convenient solutions that can be easily understood by students. Many of the topics, such as composite beam design, are straight applications of Eurocodes, but with the underlying theory fully explained. The techniques are illustrated through a series of worked examples which develop in complexity, with the more advanced questions forming extended exam type questions. A comprehensive range of fully worked tutorial questions are provided at the end of each section for students to practice in preparation for closed book exams.

The Structural Engineer's Pocket Book British Standards Edition is the only compilation of all tables, data, facts and formulae needed for scheme design to British Standards by structural engineers in a handy-sized format. Bringing together data from many sources into a compact, affordable pocketbook, it saves valuable time spent tracking down information needed regularly. This second edition is a companion to the more recent Eurocode third edition. Although small in size,

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this book contains the facts and figures needed for preliminary design whether in the office or on-site. Based on UK conventions, it is split into 14 sections including geotechnics, structural steel, reinforced concrete, masonry and timber, and includes a section on sustainability covering general concepts, materials, actions and targets for structural engineers.

The field of professional, academic and vocational qualifications is ever-changing. The new edition of this practical guide provides thorough information on all developments in these areas in the UK. Fully indexed, it includes details on all university awards and over 200 career fields, their professional and accrediting bodies, levels of membership and qualifications. British Qualifications is a unique resource for human resource managers and university admissions officers to verify the qualifications of potential employees and students.

'It is better to be roughly right than precisely wrong.' John Maynard

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Keynes This book contains approximate structural calculation methods for engineers and architects. For easy reference and assimilation it is broken down into categories from simple beams to more complex examples. With numerous figures and photographs it closely relates theory to real structures. Engineering Structures is mostly formally taught in a lecture room with little time devoted to real examples. On graduation an engineer has to cope with turning this eagerly acquired knowledge into reality. To make sense of this a designer needs to be able to test their ideas with a simple set of tools which involve little more than pen, paper and calculator. Architects often wonder if there is an easier way to evaluate alternative structural solutions in their designs. For more information see www.struartapp.com

With computers increasingly used to teach students structural design, there is a perception that students are losing a basic understanding of structural design. This text addresses the problem by encouraging basic understanding of the subject.

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