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textbook combines classical and matrix-based methods of structural analysis and develops them concurrently. It is widely used by civil and

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structural engineering lecturers and students because of its clear and thorough style and content. The text is used for undergraduate and graduate courses and

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serves as reference in structural engineering practice. With its six translations, the book is used internationally, independent of codes of practice and regardless

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of the adopted system of units. Now in its seventh edition: the introductory background material has been reworked and enhanced throughout, and

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particularly in early chapters, explanatory notes, new examples and problems are inserted for more clarity., along with 160 examples and 430 problems with

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solutions. dynamic analysis of structures, and applications to vibration and earthquake problems, are presented in new sections and in two new chapters the

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companion website provides an enlarged set of 16 computer programs to assist in teaching and learning linear and nonlinear structural analysis. The source

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code, an executable file, input example(s) and a brief manual are provided for each program.

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analysis problems. It presents detailed information on the methods of solutions to problems and the results obtained. Also given within the text is a

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summary of each of the principal analysis techniques inherent in the design process and where appropriate, an explanation of the mathematical models

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used. The text emphasises that software should only be used if designers have the appropriate knowledge and understanding of the mathematical modelling,

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assumptions and limitations inherent in the programs they use. It establishes the use of hand-methods for obtaining approximate solutions during

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preliminary design and an independent check on the answers obtained from computer analyses. What's New in the Second Edition: New chapters cover the development

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and use of influence lines for determinate and indeterminate beams, as well as the use of approximate analyses for indeterminate pin-jointed and rigid-

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jointed plane-frames.

This edition includes a rewrite of the chapter on buckling instability, expands on beams and on the use of the unit load method applied to singly

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redundant frames. The x-y-z co-ordinate system and symbols have been modified to reflect the conventions adopted in the structural Eurocodes. William M. C.

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McKenzie is also the author of six design textbooks relating to the British Standards and the Eurocodes for structural design and one structural analysis

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textbook. As a member of the Institute of Physics, he is both a chartered engineer and a chartered physicist and has been involved in consultancy, research

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