



Structural Analysis: A Unified Classical and Matrix Approach

By Amin Ghali, Adam Neville, T G Brown

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The fifth edition of this comprehensive textbook combines and develops concurrently, both classical and matrix-based methods of structural analysis. A new introductory chapter on structural analysis modelling has been added. The suitability of modelling structures as beams, plane or space frames and trusses, plane grids or assemblages of finite elements is discussed in this chapter, along with idealisation of loads, anticipated deformations, sketching deflected shapes, and bending moment diagrams. With new solved examples and problems added, the book now has over 100 worked examples and more than 350 problems with answers. A new companion website contains computer programs that can serve as optional aids in studying and in engineering practice:

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'This book has much to commend it. It will be of use to a student as a standard work on indeterminate structures. The work will also be of interest to an older engineer who studied his theory of structures before matrix methods were introduced. The book will enable him to see the relations between the new and old methods and bridge the gap between the two.' - Magazine of Concrete Research 'A virtual encyclopaedia of structural analysis' - Choice 'Undoubtedly one of the best and most comprehensive books written on the subject' - Endeavour 'The book is exemplary and stimulating for the future shaping of education in structural analysis.' Der Bauingenieur (translation from German)

About the Author

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