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4 Structural Analysis: In Theory and
Practice 1.2 Representation of forces

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A force is an action that tends to maintain or change the position of a structure. The forces acting on a structure are the applied loads, consisting of both dead and imposed loads, and support reactions. As shown in Figure 1.1 , the

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Dynamics is increasingly being identified by consulting engineers as one of the key skills which needs to be

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taught in civil engineering degree programs. This is driven by the trend towards lighter, more vibration-prone structures, the growth of business in earthquake regions, the identification of new threats such as terrorist attack and the increased availability of sophisticated dynamic analysis tools.

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Martin Williams presents this short, accessible introduction to the area of structural dynamics. He begins by describing dynamic systems and their representation for analytical purposes. The two main chapters deal with linear analysis of single (SDOF) and multi-degree-of-freedom (MDOF) systems,

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under free vibration and in response to a variety of forcing functions. Hand analysis of continuous systems is covered briefly to illustrate the key principles. Methods of calculation of non-linear dynamic response is also discussed. Lastly, the key principles of random vibration analysis are

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Analysis – this approach is crucial for wind engineering and is increasingly important for other load cases. An appendix briefly summarizes relevant mathematical techniques. Extensive use is made of worked examples, mostly drawn from civil engineering (though not exclusively – there is

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considerable benefit to be gained from emphasizing the commonality with other branches of engineering). This introductory dynamics textbook is aimed at upper level civil engineering undergraduates and those starting an M.Sc. course in the area.

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book clearly and logically presents the subject's basic principles, keeping the mathematical content to its essential minimum. The sixth edition has been revised to take into account changes in standards, and clarifies the content with updated design examples and a new setting of the text. The original

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European codes of practice. The initial chapters of the book deal with the concept of loads and their effects on structural materials and elements in terms of stress and strain. The significance of the shape of the cross-section of structural elements is then considered. The book finishes with the

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design of simple structural elements such as beams, columns, rafters, portal frames, dome frames and gravity retaining walls.

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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-jointed plane-frames. This edition includes a rewrite of the chapter on buckling instability, expands on beams and on the use of

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the unit load method applied to singly redundant frames. The x-y-z coordinate system and symbols have been modified to reflect the conventions adopted in the structural Eurocodes. William M. C. McKenzie is also the author of six design textbooks relating to the British Standards and

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