

This companion to the previously published book [BO]Classical Structural Analysis[BX], also by the same author, focuses on advanced structural analysis using matrix methods for the element method of design calculations. With this method, the structural properties of each structural member (or element) taken together, of an entire structure, are used to calculate load behaviour and construction needs of a whole building or other structure. The matrix method is particularly suited to computer methods that must employ thousands of reiterate calculations. The book contains dozens of worked-out problems and design exercises, as well as an actual computer program at the end of the book for matrix method calculations.

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