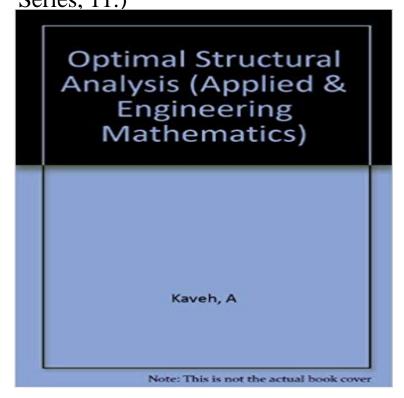
OPTIMAL STRUCTURAL ANALYSIS (Electronic & Electrical Engineering Research Studies. Applied and Engineering Mathematics Series, 11.)



Recent advances in structural technology require greater accuracy, efficiency and speed in the analysis of complex structural systems; methods that are particularly suited to this purpose are described in this book. Professor Kaveh applies abstract mathematical concepts from graph theory and topology to important problems of computational mechanics. Powerful algorithms are used to create highly sparse matrices of specified patterns, thereby achieving a considerable saving on computer storage and time, as well as increasing the accuracy of the solutions. The methods presented for substructuring and subdomaining are vital for parallel computations and examples of these are included for static as well as dynamic problems. Direct improvement of the conditioning structural matrices, in particular for the force method, is another special feature of the book. The methods in this book are not only applicable to skeletal structures, but can equally be used for the analysis of other systems such as electrical and hydraulic networks. Examples are given to illustrate the application of the methods, and exercises, with solutions.

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