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The matrix stiffness method is the basis of almost all commercial structural analysis programs. It is a specific case of the more general finite element method, and was in part responsible for the development of the finite element method.

Chapter 4 - Matrix Stiffness Method
As one of the methods of structural analysis, the direct stiffness method, also known as the matrix stiffness method, is particularly suited for computer-automated analysis of complex structures including the statically indeterminate type. It is a matrix method that makes use of the members' stiffness relations for computing member forces and displacements in structures. The direct stiffness method is the most common implementation of the finite element method. In applying the method, the system

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In modern engineering practice, such structures of medium to high complexity are typically analysed using matrix structural analysis. The advantage of matrix structural analysis is that it can easily be programmed to be solved using a computer. The use of this method with a computer allows the analysis of complex structures that would have been impossible previously. Matrix structural analysis usually uses a stiffness-type method for analysis.

11.1 Introduction | Learn About Structures
Problems in structural analysis have now been formulated in such a way that the solution is available through the use of the computer, largely by what is known as matrix methods of structural

Fundamental Structural Analysis - SKYSCRAPERS
The basic idea of the matrix structural analysis (i.e. the matrix stiffness method) is to establish the equilibrium relationship between the element-end displacements $\{\Delta\} = \{u_1, \theta_1, \theta_1, u_2, \delta_2, \theta_2\}^T$ and the element-end forces $\{F\}$ ext = $\{F_1, V_1, M_1, F_2, V_2, M_2\}^T$ of a beam-column element and the relationships for all elements are assembled at the structural level for a global analysis (where u_i, δ_i , and θ_i are element-end axial displacement, translational displacement ...

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