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Since the stiffness matrix (or the flexibility matrix) relates forces (or moments) applied anywhere on a linear structure to the displacements produced anywhere, it contains all there is to know about the stiffness properties of the structure, provided there are sufficient coordinates. Example 1.4

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In structural engineering, the flexibility method, also called the method of consistent deformations, is the traditional method for computing member forces and displacements in structural

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systems. Its modern version formulated in terms of the members' flexibility matrices also has the name the matrix force method due to its use of member forces as the primary unknowns.

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Dr.T.H.G. Megson, in Structural and Stress Analysis (Fourth Edition), 2019. Again, as in the flexibility method, we see that the greater the degree of indeterminacy (kinematic in this case) the greater the number of equations requiring solution, so that a computer-based approach is necessary when the degree of indeterminacy is high. Generally this requires that the force-displacement ...

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