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A structure refers to a system of connected parts used to support a load. Important examples related to civil engineering include buildings, bridges, and towers; and in other branches of engineering, ship and aircraft frames, tanks, pressure vessels, mechanical systems, and electrical supporting structures are important.

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What is Structural Analysis? It is a method or tool by which we find out how a structure or a member of a structure behaves when subjected to certain excitation. In other words finding out internal forces (axial force,

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For many years now, engineers have been using matrix methods to analyze structures. Although these methods are most efficient for a structural analysis, it is the author's opinion that students taking a first course in this subject should also be well versed in some of the more important classical methods.

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