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Chapter 5 Structural Analysis Objectives
To show how to determine the forces in the members of a truss using the method of joints and the method of sections. To analyze the forces acting on the members of frames and machines

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composed of member. 5.1 Simple Trusses A truss consists of straight, slender members joining at their ends.

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Introduction to Force and Displacement methods of structural analysis, Analysis of continuous beam and plane frame by slope deflection method and moment distribution method.

LECTURE NOTE COURSE CODE-BCE 306 STRUCTURAL ANALYSIS 2

References Fundamentals of Structural

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Analysis, K.M. Leet, C.M. Uang and A.M. Gilbert, 4th Ed., McGraw Hill, 2011. 7
Lecture 1 : Displacement Method and Degrees of Freedom 12 3 Essential Elements in Structural Analysis Equilibrium Compatibility Whole structure or individual free body No cracks, gaps, kinks Relation Deformation arising from the applied load relation 14

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analysis for both two- and three-dimensional frame structures. Use the flexibility method to produce exact stiffness equations for linear structural systems. Such systems include non-prismatic members, curved members, flexibly connected members, etc.

CE 682 - ADVANCED STRUCTURAL

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and five longest suspension span bridges in the world.

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Structural Analysis Lab. Prof. Hae Sung Lee, <http://strana.snu.ac.kr> 4 Flexibility

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Method 1. Release all redundancies. 2. Calculate displacements induced by external loads at the released redundancies. 3. Apply unit loads and calculate displacements at the released redundancies. 4. Construct the flexibility equation by superposing the displacement

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