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Kani Method Frame

Kani's method of analyzing indeterminate structures, particularly, building frames was developed in Germany in the year 1947 by Dr. Gasper Kani. Like moment distribution it is a method of solving slope deflection equations by an iterative method.

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Kani's method, also called the Rotation Contribution Method, is an approximate calculation method for indeterminate structures, particularly portal frames and multi-story frames with fixed connections. It is a much simpler and less time consuming method compared

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to the Moment Distribution Method.

Kani's Method - C R T

kani's method or rotation contribution method of frame analysis This method may be considered as a further simplification of moment distribution method wherein the problems involving sway were attempted in a tabular form

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thrice (for double story frames) and two shear co-efficients had to be determined which when inserted in end moments gave us the final end moments.

Kani's Method Frame Analysis | Beam (Structure) | Finite ...

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Kani Method Of Frame Analysis

Structural analysis- Kani's Method

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Analysis of Frames Using Kani's Method

with Sway Condition KANIS METHOD OF

FRAME ANALYSIS 291 6.2.1. For the first

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cycle. (A) → Linear Displacement

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KANIS METHOD OF FRAME ANALYSIS 293
Step No.3. Draw Boxes, enter the values of FEMs near respective ends of exteriorboxes and rotation contribution factors appropriately (on the interior

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side). FEMs +64 -64 -67.2 -83.92 -84.48
A

KANIS METHOD OR ROTATION CONTRIBUTION METHOD OF FRAME ANALYSIS

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PORTAL FRAME METHOD || ANALYSIS OF FRAME BY PORTAL METHOD | ...

PART1 Sway portal frame analysis using Kanis method by PARAG PAL

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continuous beam and plane frame by

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slope deflection method and moment distribution method. Module -II Analysis of continuous beam and simple portals by Kani's method, Analysis of two pinned and fixed arches with dead and live loads, suspension cable with two pinned stiffening girders. Module - ...

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306 STRUCTURAL ANALYSIS 2

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Framed structures are rarely symmetric and subjected to side sway, hence Kani's method is best and much simpler than other methods like moment distribution

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method and slope displacement method.
PROCEDURE: 1. Rotation stiffness at each end of all members of a structure is determined depending upon the end conditions. a. Both ends fixed. $K_{ij} = K_{ji} = EI/L$. b.

METHOD OF ANALYSIS OF FRAMES | CIVIL ENGINEERING

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Brief about Kani's method of analysis. Kani's method of analyzing indeterminate structures, particularly, building frames was developed in Germany in the year 1947 by Dr. Gasper Kani. Like moment distribution it is a method of solving slope deflection equations by an iterative method.

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Structural analysis 1 - SlideShare

For sway frames, extra steps are required. A unit deformation must be applied to the degree-of-freedom associated with the sway, and the resulting force must be scaled to the force resulting from the full system restrained at that degree of freedom. Analysis of sway frames using the

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moment distribution method is not within the scope of this book.

10.4 The Moment Distribution Method for Frames | Learn ...

the kani's method help as to analyze indeterminate beams, sway and non sway frames.

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(PDF) Chapter 3 Kani's Method for Analysis of ...

Kani's Method It involves distributing the unknown fixed end moments of structural members to adjacent joints, in order to satisfy the conditions of continuity of slopes and displacements. The most important feature of Kani's method is that it is self-corrective. Any

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error at any stage of iteration is corrected in subsequent steps.

Analysis Methods for Buildings Frames - The Constructor

If in a pin-jointed plane frame $(m + r) > 2j$, then the frame is (Where 'm' is number of members, 'r' is reaction components and 'j' is number of joints)

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... Moment distribution method (D) Kani's method. Correct Answer. 9. For a two-hinged arch, if one of the supports settles down vertically, then the horizontal thrust (A) Is ...

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