

# Kani's method for frame analysis

- Kani's method is an iterative technique for analyzing indeterminate structures, particularly useful for multi-storey rigid frames
- It simplifies complex calculations, focusing on rotational equilibrium at joints to determine moment distribution
- This method is efficient in handling asymmetrical buildings and structures with varying stiffness
- It calculates moments at the ends of each member, which helps in designing safer and more economical structures

## Practical example: Structural engineering

- Kani's method is a vital tool in structural engineering for analyzing indeterminate structures, particularly frames
- This method simplifies the complex calculations needed to determine the bending moments and shear forces within a frame, which are crucial for assessing its stability and safety
- By iteratively adjusting moment distribution until equilibrium is achieved, engineers can ensure that structures like buildings and bridges can withstand applied loads
- The accuracy and efficiency of Kani's method make it a popular choice for designing safe and resilient structural frameworks



# Kani Method Frame Example

**Bhavikatti S.S.**

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