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which involve curved alignment. Analysis of Curved Girder Bridges | American Institute of ... Curved or skewed girder bridges with composite steel plate girder are frequently simulated with plate and beam elements instead of beam elements with composite section. In case of modeling using plate elements or a combination of plate and beam elements, analysis results from multiple plate and/or beam elements should be converted to one member force for the design or rating code checking. Staged Analysis for Steel Bridges - MIDASoft Shear lag effect of continuous curved box girder with three spans under seismic excitation is studied in this paper. Firstly, spatial shell finite element model is founded by ANSYS, and EL-centro seismic wave is chosen as seismic excitation. Secondly, the shear lag effect at different cross sections are investigated with dynamic time-history analysis, the results show that under seismic ... Seismic response analysis on shear lag effect of ... In the current study, non composite straight and curved steel boxes are analyzed with beam and shell elements using the three dimensional finite element analysis and their behavior is investigated.

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