

عنوان مقاله:

Simple Method for Analysis of Tube Frame

محل انتشار:

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نویسندگان:

H. Saffari, - *Department of Civil Engineering, Shahid Bahonar University, Kerman, Iran*

R. Rahgozar - *Department of Civil Engineering, Shahid Bahonar University, Kerman, Iran*

R. Mahjoob, - *Research Institute, Jahade Daneshgahy, Kerman, Iran*

خلاصه مقاله:

Tubular frame structure is one of the most efficient systems in tall buildings under lateral load. The analysis of these structures usually involves considerable time and effort due to large number of members and joints. A method for shear lag consideration and stress estimating of frame components is presented. In this method by considering deformation functions for web and flange frames and writing their stress relations as well as use of minimum energy basis, functions are presented for lateral and vertical displacement of the structure. Relations suggested in this paper are capable of considering shear lag both in flange and web frames. The simplicity and accuracy of the proposed method is demonstrated through the numerical analysis of several structures. Furthermore, coefficients are given in ..terms of height to consider shear lag variation

کلمات کلیدی:

Tubular frame, Tall building, Lateral load, Shear lag

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