



## **Analysis of Non-Prismatic Frame Systems by Matrix Displacement Method**

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**Abstract:** In this study, the static solution of variable cross sectioned plane frame systems is investigated by matrix displacement method. Basic stiffness constants necessary for the calculation of fixed end moments and stiffness matrix of the members of the plane frame are obtained by analytical and numerical Romberg integration method, so there would be no need to use tables and charts. At the end of the study a computer program in basic language is presented and an example of variable cross-sectioned frame is solved by using that computer program.

**Keywords:** *matrix displacement method, stiffness constants, Romberg integration.*

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