

7.9 Summary

After brief introduction, the steel used in bridges and its properties were discussed. The broad classification of bridges was mentioned and various loads to be considered in designing railway and highway bridges in India were discussed. Finally analysis of girder bridges was discussed using influence line diagrams.

This chapter deals with the design of steel bridges using Limit States approach. Various types of plate girder and truss girder bridges were covered. Basic considerations that are to be taken into account while designing the plate girder bridges are emphasised. Practical considerations in the design of truss members and lateral bracing systems are discussed briefly. A worked example on through type truss girder Railway Bridge is given in the appendix.

