

ANALYSIS METHOD, DESIGN METHOD, MANUFACTURING METHOD, AND
PROGRAM

The present invention provides an analysis method for evaluating lateral torsional buckling proof stress of a steel girder, in which a subject is a girder (2) for which shaped steel having an upper flange (21) and a lower flange (22) coupled through a web (23) is used, both end portions (2a and 2a) of the girder (2) in a material axis direction Z are fixed, and, in a middle portion (2b) of the girder (2) in the material axis direction Z, under conditions in which lateral movement of the upper flange (21) in a width direction X is restrained, an intermediate load acts on the upper flange (21) from above, and end loads act on both end portions of the girder (2) in the material axis direction Z, lateral torsional buckling proof stress M_{cr} of the girder (2) is computed from a predetermined equation, a design method, a manufacturing method, and a program.

FIG. 5