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7.6 Plate girder bridges Indian Institute of Technology Madras Plate girders became popular in the late 1800's, when they were used in construction of railroad bridges. The plates were joined together using angles and rivets to obtain plate girders of desired size. By 1950's welded plate girders

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### NPTEL :: Civil Engineering - Design of Steel Structures II

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3/13/2018 6 Plate Girders versus Box Girders Advantages of plate girders: Easier to fabricate. Easier to handle in shop. Bounces not required. Fewer field splice bolts since bottom flange is narrower than for a box girder. Lower unit price. Lighter piece weight erection where crane capacity is a concern. Advantages of box girders plate girders:

### CE 6321 Bridge Structure PLATE GIRDER

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Lecture 9: Design of Slab Bridges (Part I) Download: 10; Lecture 10: Design of Slab Bridges (Part II) Download: 11; Lecture 11: Design of Slab Bridges (Part III) Download: 12; Lecture 12: Design of Slab Bridges (Part IV) Download: 13; Lecture 13: Design of Slab Bridges (Part V) Download: 14; Lecture 14: Design of Slab Bridges (Part VI) Download ...

### NPTEL :: Civil Engineering - NOC:Reinforced Concrete Road ...

Design a slab and girder bridge with 7.5 m. clear roadway having a span of 12.0 m. between centre line of bearings. The deck may consist of 3 girders spaced at 2, 45 m. centres. The bridge deck will have no footpaths. Loading – Single lane of Class 70-R or two lanes of Class A: Let the cross-section of the deck be assumed as shown in Fig. 8.2a.

### Design of Slab and Girder Bridges (With Diagram)

This document consists of a comprehensive steel girder bridge design example, with instructional commentary based on the AASHTO LRFD Bridge Design Specifications (Second Edition, 1998, including interims for 1999 through 2002). The design example and commentary are intended to serve as a guide to aid bridge design engineers with the implementation

### LRFD Design example for steel girder superstructure bridge ...

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### MCQs of Design of Plate Girders (Design of Steel Structure ...

Plate girders may be loaded in many ways. They may be loaded through floor slabs, floor beams which frame into the girder. They may be loaded through columns supported by them. Loads may also be suspended from a plate girder through hangers. Fig. 10.6 shows some examples of load application to plate girders. Plate Girder Connections and Spllices:

### Plate Girder: Components and Design | Construction | Civil ...

3 BEHAVIOUR OF BOX GIRDER BRIDGES 4 3.1 General 4 3.2 Bending, torsion and distortion 4 3.3 Torsion and torsional warping 6 3.4 Distortion 7 3.5 Stiffened compression flanges 11 3.6 Shear lag 11 3.7 Support of box girders 11 4 INITIAL DESIGN 13 4.1 General 13 4.2 Loadings 14 4.3 Choice of a box girder form 14

### Design Guide for Composite Box Girder Bridges

Welded Plate Girder 7.1 Introduction. Beams of long span subjected to heavy loads are encountered in buildings and bridges. For these beams, ready-made I sections are not suitable since their depth is limited due to buckling of the web. In this situation, girders are to be fabricated using flange and web plates as per requirement.

### Chapter 7. Welded Plate Girder - Design of Steel ...

Discuss plate girder shear capacity including the shear capacity of an I-shaped section, yield criteria, and buckling behavior. Week 6: Plate Girder Shear Capacity – Tension Field Action. Introduce tension field action and discuss its contribution to the shear strength of plate girders through a design example.

### Steel Beam and Plate Girder Design | edX

Lecture Series on Design of Steel Structures by Dr.Damodar Maity, Department of Civil Engineering, IIT Guwahati. For more details on NPTEL visit <http://nptel...>

### Mod-7 Lec-3 Introduction to Plate Girders-Part 1 - YouTube

A girder bridge is very likely the most commonly built and utilized bridge in the world. Its basic design, in the most simplified form, can be compared to a log ranging from one side to the other across a river or creek. In modern girder steel bridges, the two most common shapes are plate girders and box-girders.

### Design Of Plate Girders For Deck Type Railway Bridges

Adopted for small bridges and culverts. Span is between 10-20m. Concrete slab cast monolithically over longitudinal girder. No. of longitudinal girders depends upon the width of road. PLATE GIRDER BRIDGE Span ranges 10 to 60m. Can be extending up to 250m in continuous construction. TRUSS BRIDGE Span 30 to 375m in simply supported case.