

Grillage Analogy In Bridge Deck Analysis

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Grillages are most widely used to analyse beam and slab type bridge decks. Solid slab type decks are generally modelled using finite elements, however grillages may be used for this type of deck with reasonably accurate results.

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Grillage Analogy in Bridge Deck Analysis: Authors: C. S. Surana, Ramji Agrawal: Edition: illustrated: Publisher: Alpha Science Int'l Ltd., 1998: ISBN: 8173191530, 9788173191534: Length: 267 pages:...

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Grillage analogy presents a sufficiently accurate method of analysing bridge decks for estimation of design bending moment, torsion, shears force etc, and has been adapted for use in most computer software around the world. Basically, grillage analogy method uses stiffness approach for analyzing the bridge decks (Jaggerwal and Bajpai, 2014). The whole bridge deck is divided into a number of longitudinal and transverse beams (planar grids).

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GRILLAGE ANALOGY METHOD © 2,015 OSCAR MUROY 12 Transverse Shear Forces FC33 and transverse Bending Moments MF22 Transverse deflections of the deck will produce warping of the longitudinal beams, which will generate shear force FC33 and bending moment MF22 in plane of the transverse slab, see Ref. N° 1, Sect. 7.5

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The bridge deck is analyzed by both grillage analogy as well as by finite element method. Bridge deck analysis by grillage method is also compared for normal meshing, coarse meshing and fine meshing. Though finite element method gives lesser values for bending moment in deck as compared to grillage analysis, the later method seems to be easy to use and comprehend.

Comparative study of Grillage method and Finite Element ...

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This video is the part 1 of grillage analysis of bridge deck. It explains the theory of grillage analysis. References: 1. Grillage Analogy in Bridge Deck Ana...

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The grillage model is a common form of analysis model for composite bridge decks. Its key features are: It is a 2D model; Structural behaviour is linear elastic; Beam members are laid out in a grid pattern in single plane, rigidly connected at nodes; Longitudinal members represent composite sections (i.e. main girders with associated slab)

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The book covers the grillage analogy, dedicates a chapter to the modelling and analysis of integral bridge forms and also provides guidance of the application of the finite element method.

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