

# Bridge Design Calculations

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## 1. Dead Load Calculation

Concrete Deck:

The concrete deck is assumed to be 0.6m thick, and the density of concrete is 2.4 tons/m<sup>3</sup>.

We calculate the weight of the deck:

- Volume of concrete deck:

$$V_{\text{concrete}} = 60 \text{ m} \times 18 \text{ m} \times 0.6 \text{ m} = 648 \text{ m}^3$$

- Weight of concrete deck:

$$W_{\text{concrete}} = 648 \text{ m}^3 \times 2.4 \text{ tons/m}^3 = 1,555.2 \text{ tons}$$

Thus, the total dead load due to the concrete deck is 1,555.2 tons.

Steel Girders:

For multi-girder construction, assume that the steel girder weight per 30m span is around 100 tons.

For 60 meters, with girders spaced at 3m intervals, the number of girders is:

- Number of girders =  $60 / 3 = 20$  girders

- Total weight of steel girders =  $20 \times 100 \text{ tons} = 2,000 \text{ tons}$

Thus, the total dead load from the steel girders is 2,000 tons.

## 2. Live Load Calculation (AASHTO LRFD or Eurocode)

The HL-93 live load is used in AASHTO design, where the combination of truck loads and lane loads is considered:

- Lane load: 640 pounds per linear foot (equivalent to 2.84 kN/m per lane).

- Width of bridge = 18m; assuming 2 lanes:

$$\text{Live load per lane} = 2.84 \text{ kN/m} \times 18 \text{ m} \times 2 = 102.24 \text{ kN}$$

Additionally, an impact factor (usually 1.25) is applied for dynamic loading:

$$\text{Live load with impact} = 102.24 \text{ kN} \times 1.25 = 127.8 \text{ kN}$$

Thus, the live load is 127.8 kN per lane.

## 3. Shear Force Calculation at Support

The shear force at the support for a simply supported beam under a uniform load is given by:

# Bridge Design Calculations

**Amit H. Varma, Jungil Seo**



## **Bridge Design Calculations:**

LRFD Bridge Design Tim Huff, 2022-02-23 This book examines and explains material from the 9th edition of the AASHTO LRFD Bridge Design Specifications including deck and parapet design load calculations limit states and load combinations concrete and steel I girder design bearing design and more With increased focus on earthquake resiliency two separate chapters one on conventional seismic design and the other on seismic isolation applied to bridges will fully address this vital topic The primary focus is on steel and concrete I girder bridges with regard to both superstructure and substructure design Features Includes several worked examples for a project bridge as well as actual bridges designed by the author Examines seismic design concepts and design details for bridges Presents the latest material based on the 9th edition of the LRFD Bridge Design Specifications Covers fatigue strength service and extreme event limit states Includes numerous solved problems and exercises at the end of each chapter to illustrate the concepts presented LRFD Bridge Design Fundamentals and Applications will serve as a useful text for graduate and upper level undergraduate civil engineering students as well as practicing structural engineers *Bridge Calculation and Design* David Young Hill, 1962

**The Design of Highway Bridges and the Calculation of Stresses in Bridges Trusses** Milo Smith Ketchum, 1908 **Innovative Bridge Designs for Rapid Renewal: ABC Toolkit** TRANSPORTATION RESEARCH BOARD, **Verification of LRFD Bridge Design and Analysis Software for Indot** Amit H. Varma, Jungil Seo, 2009-08-15 NCHRP Process 12 50 was implemented to evaluate and verify composite steel I girder bridge design software used commonly in Indiana A test bed of twenty one bridges was developed with the guidance from an Indiana Department of Transportation appointed research advisory panel RAP The test bed included five simple span and sixteen multi span bridge superstructures More than 80 parameters were required to define a bridge and they include bridge span girder spacing number of beams section type steel strength girder sections and other required bridge parameters Some of these parameters were initially selected by INDOT and practitioners An indigenous computer program PURDUE CSBD was developed to implement the bridge design calculations specified in the AASHTO LRFD specifications which is currently endorsed by the INDOT bridge design manual Both MERLINDASH and PURDUE CSBD were used to generate design calculation results for the complete test bed of bridges The output from both computer programs is compared to identify assumptions and discrepancies between MERLIN DASH and the AASHTO LRFD specifications These comparisons indicate excellent agreement between the results from both programs for 1 moments 2 shears 3 stresses 4 deflections 5 flexural strength and all relevant parameters 6 shear strength and all relevant parameters and 7 shear connector related parameters The test bed of bridge structures and the PURDUE CSBD program are recommended for evaluating and verifying other bridge design software **Fourth International Conference on Current and Future Trends in Bridge Design, Construction and Maintenance** B. Barr, 2006 This is a state of the art reference an exchange of innovative experience creative thinking and industry forecasts This volume presents the proceedings of the

fourth international conference in this series based in the Asia Pacific region in Kuala Lumpur in October 2005 and is applicable to all sectors of the bridge engineering community

**BACKGROUND KNOWLEDGE AND FUTURE PERFORMANCE**

The Institution of Civil Engineers has collaborated with internationally renowned bridge engineers to organise three successful conferences to celebrate the enormous achievements made in the field of bridge engineering in recent years As a discipline bridge engineering not only requires knowledge and experience of bridge design and construction techniques but must also deal with increasing challenges posed by the need to maintain the long term performance of structures throughout an extended service life In many parts of the world natural phenomena such as seismic events can cause significant damage to force major repairs or reconstruction Therefore it is appropriate that the first plenary session of this conference is entitled Engineering for Seismic Performance

**READERSHIP** This compilation of papers will benefit practising civil and structural engineers in consulting firms and government agencies bridge contractors research institutes universities and colleges In short it is of importance to all engineers involved in any aspect of the design construction and repair maintenance and refurbishment of bridges

**Manual of Bridge Design Practice** ,1963 *The Design of Highway Bridges and the Calculation of Stresses in Bridge Trusses* Milo Smith Ketchum,1909 **Collapse of I-35W Highway Bridge, Minneapolis, Minnesota, August 1, 2007** United States. National Transportation Safety Board,2008 In the early afternoon construction equipment and construction aggregates sand and gravel for making concrete were delivered and positioned in the two closed inside southbound lanes The equipment and aggregates which were being staged for a concrete pour of the southbound lanes that was to begin about 7 00 p m were positioned toward the south end of the center section of the deck truss portion of the bridge and were in place by about 2 30 p m About 6 05 p m a motion activated surveillance video camera at the Lower St Anthony Falls Lock and Dam just west of the I 35W bridge recorded a portion of the collapse sequence The video showed the bridge center span separating from the rest of the bridge and falling into the river

**The Design of Highway Bridges of Steel, Timber and Concrete** Milo Smith Ketchum,1920 **Safety and Reliability of Bridge Structures** Khaled Mahmoud,2009-09-21 Recent surveys of the U S infrastructure s condition have rated a staggering number of bridges structurally deficient or functionally obsolete While not necessarily unsafe a structurally deficient bridge must be posted for weight and have limits for speed due to its deteriorated structural components Bridges with old design features that cannot

**Bridge Design & Engineering** ,2001 Bridge and Structural Design William Chase Thomson,1910 Report [and Plans] Also Report on Design of Quebec Bridge Canada. Royal Commission on Quebec Bridge Inquiry,1908 Report [and Plans] Also Report on Design of Quebec Bridge: Minutes of proceedings and printed exhibits Canada. Royal Commission on Quebec Bridge Inquiry, Henry Holgate,1908 *Design of a Railway Bridge Pier* Charles Derleth (Jr.),1907 **Final Report on Bridge Design in Connection with the Third Locks Project** Howard F. Topping,1943 *The Design of Steel Mill Buildings and the Calculation of Stresses in Framed Structures* Milo Smith Ketchum,1921 **AASHTO LRFD Bridge**

**Design Specifications** American Association of State Highway and Transportation Officials, 1994  
Mansfield Merriman, Henry Sylvester Jacoby, 1894

**Bridge design. 1. ed**

## Whispering the Strategies of Language: An Psychological Journey through **Bridge Design Calculations**

In a digitally-driven world where monitors reign supreme and quick transmission drowns out the subtleties of language, the profound strategies and psychological nuances hidden within phrases usually go unheard. However, set within the pages of **Bridge Design Calculations** a interesting fictional prize blinking with natural feelings, lies an extraordinary journey waiting to be undertaken. Published by an experienced wordsmith, this wonderful opus attracts visitors on an introspective journey, gently unraveling the veiled truths and profound affect resonating within the material of each word. Within the mental depths of this touching review, we shall embark upon a heartfelt exploration of the book is key subjects, dissect their interesting writing style, and yield to the strong resonance it evokes deep within the recesses of readers hearts.

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