

## Bridges & Structures

### LRFD Steel Girder SuperStructure Design Example Pier Design Example Design Step 8

#### Table of Contents

- [Design Step 8.1](#) - Obtain Design Criteria
- [Design Step 8.2](#) - Select Optimum Pier Type
- [Design Step 8.3](#) - Select Preliminary Pier Dimensions
- [Design Step 8.4](#) - Compute Dead Load Effects
- [Design Step 8.5](#) - Compute Live Load Effects
- [Design Step 8.6](#) - Compute Other Load Effects
- [Design Step 8.7](#) - Analyze and Combine Force Effects
- [Design Step 8.8](#) - Design Pier Cap
- [Design Step 8.9](#) - Design Pier Column
- [Design Step 8.10](#) - Design Pier Piles
- [Design Step 8.11](#) - Design Pier Footing
- [Design Step 8.12](#) - Final Pier Schematic

#### Design Step 8.1 - Obtain Design Criteria

This pier design example is based on *AASHTO LRFD Bridge Design Specifications* (through 2002 interims). The design methods presented throughout the example are meant to be the most widely used in general bridge engineering practice.

The first design step is to identify the appropriate design criteria. This includes, but is not limited to, defining material properties, identifying relevant superstructure information, determining the required pier height, and determining the bottom of footing elevation.

Refer to Design Step 1 for introductory information about this design example. Additional information is presented about the design assumptions, methodology, and criteria for the entire bridge, including the pier.

The following units are defined for use in this design example:

$$K = 1000lb \quad kcf = \frac{K}{ft^3} \quad ksi = \frac{K}{in^2} \quad ksf = \frac{K}{ft^2} \quad klf = \frac{K}{ft}$$

#### Material Properties:

Concrete density:	$W_c = 0.150kcf$	S Table 3.5.1-1
Concrete 28-day compressive strength:	$f_c = 4.0ksi$	S5.4.2.1 C Table 5.4.2.1-1
Reinforcement strength:	$f_y = 60.0ksi$	S5.4.3

**Concrete 28-day compressive strength** - For all components of this pier design example, 4.0 ksi is used for the 28-day compressive strength. However, per the Specifications, 2.4 ksi could be used for the

# Lrfd Steel Design Pages

**Louis F. Geschwindner**



## Lrfd Steel Design Pages:

**Structural Steel Design: LRFD Approach** J. C. Smith, 1991-01-16 Going beyond the author's previous text this up to date book presents the latest LRFD specifications which are mandatory in the design and use of steel structures Included is a concise introduction to fillet welded and beaming type bolted connections for tension members Accurate page numbers are provided for each cited LRFD specification design and recommended design procedure This timely title offers new material not found in the previous work including bracing requirements connections plate girders composite members and plastic analysis and design Appendices contain the results of an elastic factored load analysis of an industrial type building for the applicable LRFD loading combinations and a concise review of material pertaining to principal axes for column and beam action

**LRFD Steel Design** William T. Segui, 1994 Newly updated to match the latest LRFD standards and AISC Steel Manual this concise well organized book gives students the fundamentals of structural steel design It will also prove useful to practicing engineers needing review of current practice and the current AISC Specification The author provides a wealth of examples problems and computer programming exercises to develop the readers practical understanding of modern steel design concepts and procedures

**Structural Steel Design, LRFD** Alan Williams, 2010-01-01

**LRFD Steel Design Aids, 4th Edition** Zahid Ahmad Siddiqi, 2018-01-15 After the publication of the third edition of this book new AISC Specification was released in 2010 that contains combined provisions for ASD and ARFD methods and formulas in non dimensional format to be used both for the FPS and the SI units This fourth edition is prepared after revising the original book in the light of the new Specification of AISC 2016 The book contains tables required for the 345 Grade Steel and BS sections The author is highly thankful to all the engineers and students who have participated in the improvement of this book through their questions and queries As before the detailed design procedure of the steel structures is explained in a separate book titled Steel Structures which frequently refers to this book for the properties tables and the design aids Suggestions for further improvement of the presentation will be highly appreciated and will be incorporated in the future editions

**Structural Steel Design** Jack C. McCormac, 1989

**Reinforced Concrete Grade Beams, Piles & Caissons** Raksha N. Parmar, 2013-12-26 REINFORCED CONCRETE GRADE BEAMS PILES CAISSONS A Simplified Guide for Hillside Engineering This book is the torchlight for Architects engineers contractors homeowners It tells about different type of soils how they create problems when building a structure on it The book tells the reader about how to solve the problems of soft soil by going deep into foundation by supporting the structure on grade beams piles caissons It brings the information about the role of different professionals who are involved in solving these problems building a dream structure for an ambitious homeowner Several homeowners desire to live on nice isolated beautiful dreamlike land But they do not have any information about how this work is done Another important characteristic of construction is loads which are additional loads due to the Alluvium soil depth of the deep foundation availability of hard rock slope of the site location daylight to the edge of the foundation water

table elevation etc It discusses the importance of soil report Geotechnical engineers soil samples Importance of loads load combinations are emphasized Most important aspect is the CODE which has control of the local authority State authority International authority Not only that all the revisions in CODE shall be considered The book gives several useful formulas for structural engineering calculations for this kind of structures I have added real life work samples which I have done for design of hillside structures By Raksha N Parmar P E State of California

**Structural Steel Design-LRFD** Thomas Burns,1995 *Unified Design of Steel Structures* Louis F. Geschwindner,2011-12-20 Geschwindner s 2nd edition of Unified Design of Steel Structures provides an understanding that structural analysis and design are two integrated processes as well as the necessary skills and knowledge in investigating designing and detailing steel structures utilizing the latest design methods according to the AISC Code The goal is to prepare readers to work in design offices as designers and in the field as inspectors This new edition is compatible with the 2011 AISC code as well as marginal references to the AISC manual for design examples and illustrations which was seen as a real advantage by the survey respondents Furthermore new sections have been added on Direct Analysis Torsional and flexural torsional buckling of columns Filled HSS columns and Composite column interaction More real world examples are included in addition to new use of three dimensional illustrations in the book and in the image gallery an increased number of homework problems and media approach Solutions Manual Image Gallery

*Steel Design* William T. Segui,2006-11-01 LRFD Steel Design Using Advanced Analysis W.F. Chen,Seung-Eock Kim,1997-01-30 LRFD Steel Design Using Advanced Analysis uses practical advanced analysis to produce almost identical member sizes to those of the Load and Resistance Factor Design LRFD method The main advantage of the advanced analysis method is that tedious and sometimes confusing separate member capacity checks encompassed by the AISC LRFD specification equations are not necessary Advanced analysis can sufficiently capture the limit state strength and stability of a structural system and its individual member directly While the use of elastic analysis is still the norm in engineering practice a new generation of codes is expected to adopt the advanced analysis methodology in the near future leading to significant savings in design effort In recent years the continued rapid development in computer hardware and software coupled with an increased understanding of structural behavior has made it feasible to adopt the advanced analysis techniques for design office use Drs Chen and Kim both experienced and respected engineers contribute their expertise to this text which is intended for both the graduate student and the practicing engineer Previous knowledge of the subject is not necessary but familiarity with methods of elastic analysis and conventional LRFD design is expected The advanced analysis in the book is presented in a practical and simple manner with attention directed to both analysis and design emphasizing the direct use of the methods in engineering practice This is a great introduction to an exciting new trend in structural engineering

**Cold-Formed Steel Design** Wei-Wen Yu,Roger A. LaBoube,Helen Chen,2019-10-29 Provides the latest AISI North American specifications for cold formed steel design Hailed by professionals around the world as the definitive text on

the design of cold formed steel this book provides descriptions of the construction and structural behavior of cold formed steel members and connections from both theoretical and experimental points of view Updated to reflect the 2016 AISI North American specification and 2015 North American framing standards this all new fifth edition offers readers a better understanding of the analysis and design of the thin walled cold formed steel structures that have been widely used in building construction and other areas in recent years Cold Formed Steel Design 5th Edition has been revised and reorganized to incorporate the Direct Strength Method It discusses the reasons and justification for the various design provisions of the North American specification and framing design standards It provides chapter coverage of the types of steels and their most important mechanical properties the fundamentals of buckling modes commonly used terms the design of flexural members compression members and closed cylindrical tubes and of beam columns using ASD LRFD and LSD methods shear diaphragms and shell roof structures standard corrugated sheets and more Updated to the 2016 North American AISI S100 design specification and 2015 North American AISI S240 design standard Offers thorough coverage of ASD LRFD LSD and DSM design methods Integrates DSM in the main body of design provisions Features a new section on Power Actuated Fastener PAF Connections Provides new examples and explanations of design provisions Cold Formed Steel Design 5th Edition is not only instructive for students but can serve as a major source of reference for structural engineers researchers architects and construction managers

Steel Structures, 4th Edition Zahid Ahmad Siddiqi, 2017-03-14 At the end of year 2005 new AISC Specification was released that contained formulas for both Allowable Stress Design and Load and Resistance Factor Design in non dimensional format to be used for both the FPS and SI units In year 2010 this specification for steel structures design and the seismic provisions were updated This specification was further revised in 2016 This book is prepared in the light of the new Specifications AASHTO LRFD Specifications are used to present the concepts of bridge loading and the design procedure As in the first edition in place of explaining the various aspects of design such as checking various strength capacities stability requirements and serviceability limits in separate chapters complete design including all the major steps of design are presented in individual units for various types of members It is expected that this procedure gives true picture of design process to the beginners and the practicing engineers This book is more useful if it is used along with another publication LRFD Steel Design Aids termed as Design Aids in this book The flow charts given in different sections of this book may easily be computerized to get custom made computer programs for personal use International system of units SI is used throughout the book Suggestions for further improvement of the presentation will be highly appreciated and will be incorporated in the future editions

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### **Table of Contents Lrfd Steel Design Pages**

1. Understanding the eBook Lrfd Steel Design Pages
  - The Rise of Digital Reading Lrfd Steel Design Pages
  - Advantages of eBooks Over Traditional Books
2. Identifying Lrfd Steel Design Pages
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Lrfd Steel Design Pages
  - User-Friendly Interface
4. Exploring eBook Recommendations from Lrfd Steel Design Pages
  - Personalized Recommendations

- Lrfd Steel Design Pages User Reviews and Ratings
- Lrfd Steel Design Pages and Bestseller Lists
- 5. Accessing Lrfd Steel Design Pages Free and Paid eBooks
  - Lrfd Steel Design Pages Public Domain eBooks
  - Lrfd Steel Design Pages eBook Subscription Services
  - Lrfd Steel Design Pages Budget-Friendly Options
- 6. Navigating Lrfd Steel Design Pages eBook Formats
  - ePub, PDF, MOBI, and More
  - Lrfd Steel Design Pages Compatibility with Devices
  - Lrfd Steel Design Pages Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Lrfd Steel Design Pages
  - Highlighting and Note-Taking Lrfd Steel Design Pages
  - Interactive Elements Lrfd Steel Design Pages
- 8. Staying Engaged with Lrfd Steel Design Pages
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Lrfd Steel Design Pages
- 9. Balancing eBooks and Physical Books Lrfd Steel Design Pages
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Lrfd Steel Design Pages
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Lrfd Steel Design Pages
  - Setting Reading Goals Lrfd Steel Design Pages
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Lrfd Steel Design Pages
  - Fact-Checking eBook Content of Lrfd Steel Design Pages

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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