



# **AISC Specification and Manual Editions Referenced in AISC Design Guides**

May 9, 2022

| DG # | Design Guide Title                                                                     | Edition | Copyright | AISC Specification Used | AISC Manual Edition Used  |
|------|----------------------------------------------------------------------------------------|---------|-----------|-------------------------|---------------------------|
| 1    | Base Plate and Anchor Rod Design                                                       | 2nd     | 2006      | 2005                    | 13th Ed.                  |
| 2    | Steel and Composite Beams with Web Openings                                            | 1st     | 1990      | 1986 LRFD               | LRFD 1st Ed.              |
| 3    | Serviceability Design Considerations for Steel Buildings                               | 2nd     | 2003      | 1999 LRFD               | ---                       |
| 4    | Extended End-Plate Moment Connections: Wind and Seismic Applications                   | 2nd     | 2003      | 1999 LRFD               | ASD 9th Ed./ LRFD 3rd Ed. |
| 5    | Low- and Medium-Rise Steel Buildings                                                   | 1st     | 1991      | 1986 LRFD/<br>1989 ASD  | LRFD 1st Ed.              |
| 6    | Load and Resistance Factor Design of V-Shapes Encased in Concrete                      | 1st     | 1992      | 1986 LRFD               | LRFD 1st Ed.              |
| 7    | Industrial Building Design                                                             | 3rd     | 2019      | 2016                    | 15th Ed.                  |
| 8    | Partially Restrained Composite Connections                                             | 1st     | 1996      | 1993 LRFD               | ASD 9th Ed./ LRFD 2nd Ed. |
| 9    | Torsional Analysis of Structural Steel Members                                         | 1st     | 1997      | 1993 LRFD/<br>ASD       | 1989 LRFD 2nd Ed.         |
| 10   | Erection Bracing of Low-Rise Structural Steel Buildings                                | 2nd     | 2020      | 2016                    | 15th Ed.                  |
| 11   | Vibrations of Steel-Framed Structural Systems Due to Human Activity                    | 2nd     | 2016      | ---                     | 14th Ed.                  |
| 12   | Modification of Existing Welded Steel Moment Frame Connections for Seismic Resistance  | 1st     | 1999      | 1993 LRFD               | LRFD 2nd Ed.              |
| 13   | Stiffening of Wide-Flange Columns at Moment Connections: Wind and Seismic Applications | 1st     | 1999      | 1993 LRFD               | LRFD 2nd Ed.              |
| 14   | Staggered Truss Framing Systems                                                        | 1st     | 2001      | ---                     | LRFD 2nd Ed.              |
| 15   | Rehabilitation and Retrofit                                                            | 2nd     | 2018      | thru 2016               | thru 15th Ed.             |
| 16   | Flush and Extended Multiple-Row Moment End-Plate Connections                           | 1st     | 2002      | 1999 LRFD/<br>1989 ASD  | LRFD 2nd Ed./ ASD 9th Ed. |
| 17   | High-Strength Bolts - A Primer for Structural Engineers                                | 1st     | 2002      | 1999 LRFD               | LRFD 3rd Ed.              |
| 18   | Steel-Framed Open-Deck Parking Structures                                              | 1st     | 2003      | 1999 LRFD               | LRFD 3rd Ed.              |
| 19   | Fire Resistance of Structural Steel Framing                                            | 1st     | 2003      | 1999 LRFD               | LRFD 3rd Ed.              |
| 20   | Steel Plate Shear Walls                                                                | 1st     | 2006      | 2005                    | ---                       |
| 21   | Welded Connections - A Primer for Engineers                                            | 2nd     | 2017      | 2016                    | 15th Ed.                  |

# Aisc Design Guide 6

**W.F. Chen, E.M. Lui**



## **Aisc Design Guide 6:**

**The Civil Engineering Handbook** W.F. Chen, J.Y. Richard Liew, 2002-08-29 Providing extensive coverage of all major areas of civil engineering the second edition of this award winning handbook features contributions from leading professionals and academicians and is packed with formulae data tables and definitions vignettes on topics of recent interest and additional sources of information It includes a wealth of material in areas such as coastal engineering polymeric materials computer methods shear stresses in beams and pavement performance evaluation Its wide range of information makes it an essential resource for anyone working in civil structural or environmental engineering     **Techniques for the Seismic Rehabilitation of Existing Buildings** ,2006     Handbook of Structural Engineering W.F. Chen, E.M. Lui, 2005-02-28 Continuing the best selling tradition of the Handbook of Structural Engineering this second edition is a comprehensive reference to the broad spectrum of structural engineering encapsulating the theoretical practical and computational aspects of the field The contributors cover traditional and innovative approaches to analysis design and rehabilitation New topics include fundamental theories of structural dynamics advanced analysis wind and earthquake resistant design design of prestressed structures high performance steel concrete and fiber reinforced polymers semirigid frame structures structural bracing and structural design for fire safety     **Structural Steel Design** Abi Aghayere, 2025-05-29 Essential knowledge of steel framed structure design is a cornerstone for architectural civil and structural engineers as well as for students planning careers in structural design and construction Structural Steel Design Fourth Edition delivers a comprehensive understanding of structural steel design starting with the fundamentals and progressing to the design of a complete structural system It emphasizes not just the individual steel elements or components but their integration within the broader context of the entire structure By working through the chapters and corresponding design project tasks readers will complete the design of a full steel structure allowing them to grasp the connections between discrete components and the larger system This approach reinforces the importance of seeing the big picture in structural design Encouraged by the American Institute for Steel Construction this book goes beyond traditional textbook exercises by offering real world examples project based exercises and open ended problems that challenge the reader to make decisions and navigate the iterative nature of structural design Practical details and real world end of chapter problems reflect the types of challenges encountered in professional engineering practice making this text not just an academic resource but a practical guide for aspiring engineers     *Principles of Structural Design* W.F. Chen, E.M. Lui, 2005-10-31 Many important advances in designing high performance structures have occurred over the last several years Structural engineers need an authoritative source of information that thoroughly and concisely covers the foundational principles of the field Comprising chapters selected from the second edition of the best selling Handbook of Structural Engineering this book provides a tightly focused economical guide to the theoretical practical and computational aspects of structural design Expert contributors

discuss a wide variety of structures including steel aluminum timber and prestressed concrete as well as reliability based design and structures based on wind engineering *Guidelines for Siting and Layout of Facilities* CCPS (Center for Chemical Process Safety),2018-04-24 This book has been written to address many of the developments since the 1st Edition which have improved how companies survey and select new sites evaluate acquisitions or expand their existing facilities This book updates the appendices containing both the recommended separation distances and the checklists to help the teams obtain the information they need when locating the facility within a community when arranging the processes within the facility and when arranging the equipment within the process units Recommended Seismic Evaluation and Upgrade Criteria for Existing Welded Steel Moment-frame Buildings SAC Joint Venture. Guidelines Development Committee,2000

**Tubular Structures XI** Jeffrey A. Packer,2017-10-02 This topical book contains the latest scientific and engineering developments in the field of tubular steel structures as presented at the 11th International Symposium and IIW International Conference on Tubular Structures The International Symposium on Tubular Structures ISTS has a long standing reputation for being the principal showcase for manufactured tubing and the prime international forum for discussion of research developments and applications in this field Various key and emerging subjects in the field of hollow structural sections are covered such as novel applications and case studies static and fatigue behaviour of connections joints concrete filled and composite tubular members earthquake resistance specification and code developments material properties and structural reliability impact resistance and brittle fracture fire resistance casting and fabrication innovations Research and development issues presented in this book are applicable to buildings bridges offshore structures entertainment rides cranes towers and various mechanical and agricultural equipment This book is thus a pertinent reference source for architects civil and mechanical engineers designers steel fabricators and contractors manufacturers of hollow sections or related construction products trade associations involved with tubing owners or developers of tubular structures steel specification committees academics and research students The conference presentations herein include two keynote lectures the International Institute of Welding Houdremont Lecture and the ISTS Kurobane Lecture plus finalists in the CIDECT Student Papers Competition The 11th International Symposium and IIW International Conference on Tubular Structures ISTS11 took place in Quebec City Canada from August 31 to September 2 2006 *Dynamics of Coupled Structures, Volume 1* Matt Allen,Randy Mayes,Daniel Rixen,2014-04-16 This first volume of eight from the IMAC XXXII Conference brings together contributions to this important area of research and engineering The collection presents early findings and case studies on fundamental and applied aspects of Structural Dynamics including papers on Linear Systems Substructure Modelling Adaptive Structures Experimental Techniques Analytical Methods Damage Detection Damping of Materials Members Modal Parameter Identification Modal Testing Methods System Identification Active Control Modal Parameter Estimation Processing Modal Data Structural Design Guide Edward S. Hoffman,1996-08-31 This essential guide clearly explains the

American Institute for Steel Construction AISC Load and Resistance Factor Design LRFD Specifications and Commentary enabling readers to conform with and profit from the design aids and tables in the AISC Manuals of Steel Construction Volumes I and II It provides readers with valuable specification interpretations analysis and design examples and graphs providing ready made solutions to complex code formulas Special features of this practical volume include quick and economical beam selection tables detailed truss design examples and coefficients for shears moments and points of inflection It contains a variety of numerical examples along with discussions of material specifications The design requirements included in the LRFD specifications are arranged in an accessible manner making it easy to pinpoint the design of specific elements This single volume resource offers structural engineers essential material necessary for designing efficient structural steel buildings Engineering students in related courses will find this book invaluable for understanding and becoming acclimated with the AISC and LRFD standard design practices

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