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May 9, 2022

| DG # | Design Guide Title                                                                     | Edition | Copyright | AISC Specification Used | AISC Manual Edition Used  |
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| 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 4

**Hollee Hitchcock Becker**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

#### **Aisc Design Guide 4:**

**Design and Analysis of Connections in Steel Structures** Alfredo Boracchini, 2018-07-09 Dieses Buch f hrt in alle Aspekte der sicheren Berechnung Bemessung und Konstruktion von wirtschaftlichen modernen Verbindungen im Stahlbau ein Die Hintergrunderl uterungen sind nicht an eine spezifische Norm gekoppelt sondern es werden unterschiedliche Normen und Methoden verglichen die in der Praxis zur Anwendung kommen wie z B Eurocode AISC DIN BS Anhand einer Reihe von Beispielen werden Probleml sungen detailliert beschrieben und illustriert Damit erh lt der Leser alle notwendigen Werkzeuge an die Hand um auch komplexe Probleme bei der Konstruktion von Verbindungen zu l sen Das Buch ist f r Berufseinsteiger f r erfahrene Praktiker sowie auch f r Stahlbaufachleute eine Arbeitshilfe denn es werden einfache und komplexe Beanspruchungen an Verbindungen abgebildet Weniger ausf hrlich werden Erdbebenauslegung Schwei n hte die Wechselwirkung mit anderen Materialien Beton Holz und kalt geformte Verbindungen behandelt **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 *Steel Connection Design by Inelastic Analysis* IDEA StatiCa, Mustafa Mahamid, Mark Denavit, Ali Nassiri, Halil Sezen, Martin Vild, 2024-10-15 Comprehensive resource on the finite element method in structural steel connection design through verification with AISC 360 provisions Steel Connection Design by Inelastic Analysis covers the use of the finite element method in structural steel connection design Verification with AISC 360 provisions is presented focusing on the Component Based Finite Element Method CBFEM a novel approach that provides the global behavior and verification of resistance for the design of structural steel connections This method is essential for fast and practical design and evaluation of connections with different levels of geometry and complexity Detailed modeling and verification examples with references to AISC and other relevant publications are included throughout the text along with roughly 250 illustrations to aid in reader comprehension Readers of this text will benefit from understanding at least the basics of structural design ideally through civil structural or mechanical engineering programs of study Written by a team of six highly qualified authors Steel Connection Design by Inelastic Analysis includes information on T stub connections single plate shear connections bracket plate connections beam over column connections and end plate moment connections Bolted wide flange splice connections temporary splice connections and chevron brace connection in a braced frame Brace connections at beam column connection in a braced frame and double angle simple beam to column connections Semi rigid beam to column connections covering code design calculations and

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 Steel AWS     **Proceedings of the Canadian Society of Civil Engineering Annual Conference 2022** Rishi Gupta,Min  
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 engineering etc This volume will prove a valuable resource for those in academia and industry     **Comprehensive**  
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