

Steel Design - LRFD

AISC Steel Manual 13th edition

Column Design Tutorial

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1 Introduction

According to the LRFD methodology columns must be selected such that the following basic equation is satisfied:

$$\phi P_n \geq P_u$$

Therefore, column design requires the determination of ϕP_n . To do this, for a particular column, the slenderness, KL/r , of the column must be determined. This tutorial outlines the relevant information needed to obtain the column's governing slenderness and then subsequently determine ϕP_n .

2 Slenderness Ratio

Every column has a slenderness ratio calculated as KL/r where K is the effective length factor, L is the column length and r is the radius of gyration for the column cross-section about the axis that governs buckling. The slenderness ratio for compression members preferably should not exceed 200. The slenderness may need to be calculated for buckling about each axis of the column cross-section. The largest of the following values, $K_x L_x / r_x$, $K_y L_y / r_y$ or possibly $K_z L_z / r_z$, must be used.

2.1 Effective Length Factor

Depending on the type of building and column end conditions, the effective length factor, K , may be determined as follows:

(a.) Braced frames(Non-sway Frames)

i. Non-moment connections at the column joints.

$$K = 1.0$$

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Y. C. Wang, C.K. Choi



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Handbook of Civil Engineering Calculations, Second Edition Tyler G. Hicks, S. David Hicks, 2007-05-23 Table of Contents Preface How to Use This Handbook Sect 1 Structural Steel Engineering and Design Sect 2 Reinforced and Prestressed Concrete Engineering and Design Sect 3 Timber Engineering Sect 4 Soil Mechanics Sect 5 Surveying Route Design and Highway Bridges Sect 6 Fluid Mechanics Pumps Piping and Hydro Power Sect 7 Water Supply and Stormwater System Design Sect 8 Sanitary Wastewater Treatment and Control Sect 9 Engineering Economics Index 1 **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 Guide to Application of the 1991 NEHRP Recommended Provisions in Earthquake-Resistant Building Design James R. Harris, 1996-07 Provides architects designing buildings in seismic risk areas with the information needed to effectively utilize the National earthquake Hazards Reduction program NEHRP Recommended Provisions Rigorously updated this manual includes the best most current technological information for reducing safety hazards Chapter topics include fundamentals structural analysis structural steel reinforced concrete timber masonry nonstructural elements List of symbols Metric unit conversion tables Graphs charts 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 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

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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

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future direction of computer based analyses of inelastic strength and stability for direct frame design It shows how design rules are used in practical frame design and provides an introduction to the second order theory of inelastic frame design The book includes two computer programs on a diskette one for the first order analyses and the other for the second order plastic hinge analysis of planar frame design The second order program can be used to predict realistic strengths and stabilities of planar frames thereby eliminating the tedious task of estimating factors for individual member capacity checks Both programs include clear input instructions The diskette also contains the Fortran source code listing for the second order plastic hinge analysis enabling the user to customize the program The programs will run on an IBM PC AT or equivalent machine with 640 kB of memory and 30 MB hard drive

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Table of Contents Aisc Lrfd Manual

1. Understanding the eBook Aisc Lrfd Manual
 - The Rise of Digital Reading Aisc Lrfd Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Aisc Lrfd Manual
 - 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 Aisc Lrfd Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Aisc Lrfd Manual
 - Personalized Recommendations
 - Aisc Lrfd Manual User Reviews and Ratings
 - Aisc Lrfd Manual and Bestseller Lists
5. Accessing Aisc Lrfd Manual Free and Paid eBooks
 - Aisc Lrfd Manual Public Domain eBooks
 - Aisc Lrfd Manual eBook Subscription Services
 - Aisc Lrfd Manual Budget-Friendly Options
6. Navigating Aisc Lrfd Manual eBook Formats

- ePub, PDF, MOBI, and More
 - Aisc Lrfd Manual Compatibility with Devices
 - Aisc Lrfd Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Aisc Lrfd Manual
 - Highlighting and Note-Taking Aisc Lrfd Manual
 - Interactive Elements Aisc Lrfd Manual
 8. Staying Engaged with Aisc Lrfd Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Aisc Lrfd Manual
 9. Balancing eBooks and Physical Books Aisc Lrfd Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Aisc Lrfd Manual
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Aisc Lrfd Manual
 - Setting Reading Goals Aisc Lrfd Manual
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Aisc Lrfd Manual
 - Fact-Checking eBook Content of Aisc Lrfd Manual
 - 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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