

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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Table of Contents Aisc Lrfd Manual 2015

1. Understanding the eBook Aisc Lrfd Manual 2015
 - The Rise of Digital Reading Aisc Lrfd Manual 2015
 - Advantages of eBooks Over Traditional Books
2. Identifying Aisc Lrfd Manual 2015
 - 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 2015
 - User-Friendly Interface
4. Exploring eBook Recommendations from Aisc Lrfd Manual 2015
 - Personalized Recommendations
 - Aisc Lrfd Manual 2015 User Reviews and Ratings
 - Aisc Lrfd Manual 2015 and Bestseller Lists
5. Accessing Aisc Lrfd Manual 2015 Free and Paid eBooks
 - Aisc Lrfd Manual 2015 Public Domain eBooks
 - Aisc Lrfd Manual 2015 eBook Subscription Services

- Aisc Lrfd Manual 2015 Budget-Friendly Options
- 6. Navigating Aisc Lrfd Manual 2015 eBook Formats
 - ePub, PDF, MOBI, and More
 - Aisc Lrfd Manual 2015 Compatibility with Devices
 - Aisc Lrfd Manual 2015 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Aisc Lrfd Manual 2015
 - Highlighting and Note-Taking Aisc Lrfd Manual 2015
 - Interactive Elements Aisc Lrfd Manual 2015
- 8. Staying Engaged with Aisc Lrfd Manual 2015
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Aisc Lrfd Manual 2015
- 9. Balancing eBooks and Physical Books Aisc Lrfd Manual 2015
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Aisc Lrfd Manual 2015
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Aisc Lrfd Manual 2015
 - Setting Reading Goals Aisc Lrfd Manual 2015
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Aisc Lrfd Manual 2015
 - Fact-Checking eBook Content of Aisc Lrfd Manual 2015
 - 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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