

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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Principles of Structural Design Ram S. Gupta, 2019-06-17 Timber steel and concrete are common engineering materials used in structural design. Material choice depends upon the type of structure, availability of material and the preference of the designer. The design practices, the code requirements of each material are very different. In this updated edition, the elemental designs of individual components of each material are presented together with theory of structures essential for the design. Numerous examples of complete structural designs have been included. A comprehensive database comprising materials properties, section properties, specifications and design aids has been included to make this essential reading.

LRFD Bridge Design Tim Huff, 2022-02-23 This book examines and explains material from the 9th edition of the AASHTO LRFD Bridge Design Specifications including deck and parapet design, load calculations, limit states and load combinations, concrete and steel I girder design, bearing design and more. With increased focus on earthquake resiliency, two separate chapters, one on conventional seismic design and the other on seismic isolation applied to bridges, will fully address this vital topic. The primary focus is on steel and concrete I girder bridges with regard to both superstructure and substructure design. Features: Includes several worked examples for a project bridge as well as actual bridges designed by the author. Examines seismic design concepts and design details for bridges. Presents the latest material based on the 9th edition of the LRFD Bridge Design Specifications. Covers fatigue strength, service and extreme event limit states. Includes numerous solved problems and exercises at the end of each chapter to illustrate the concepts presented. LRFD Bridge Design Fundamentals and Applications will serve as a useful text for graduate and upper level undergraduate civil engineering students as well as practicing structural engineers.

Proceedings of International Conference on ICT for Sustainable Development Suresh Chandra Satapathy, Amit Joshi, Nilesh Modi, Nisarg Pathak, 2016-02-25 The two volumes of this book collect high quality peer reviewed research papers presented in the International Conference on ICT for Sustainable Development, ICT4SD 2015, held at Ahmedabad, India, during 3-4 July 2015. The book discusses all areas of Information and Communication Technologies and its applications in the field for engineering and management. The main focus of the volumes are on applications of ICT for Infrastructure, e-Governance and contemporary technologies, advancements on Data Mining, Security, Computer Graphics, etc. The objective of this International Conference is to provide an opportunity for the researchers, academicians, industry persons and students to interact and exchange ideas, experience and expertise in the current trend and strategies for Information and Communication Technologies.

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AAC masonry *Fundamentals of Structural Engineering* Jerome J. Connor, Susan Faraji, 2016-02-10 This updated textbook provides a balanced seamless treatment of both classic analytic methods and contemporary computer based techniques for conceptualizing and designing a structure New to the second edition are treatments of geometrically nonlinear analysis and limit analysis based on nonlinear inelastic analysis Illustrative examples of nonlinear behavior generated with advanced software are included The book fosters an intuitive understanding of structural behavior based on problem solving experience for students of civil engineering and architecture who have been exposed to the basic concepts of engineering mechanics and mechanics of materials Distinct from other undergraduate textbooks the authors of *Fundamentals of Structural Engineering* 2 e embrace the notion that engineers reason about behavior using simple models and intuition they acquire through problem solving The perspective adopted in this text therefore develops this type of intuition by presenting extensive realistic problems and case studies together with computer simulation allowing for rapid exploration of how a structure responds to changes in geometry and physical parameters The integrated approach employed in *Fundamentals of Structural Engineering* 2 e make it an ideal instructional resource for students and a comprehensive authoritative reference for practitioners of civil and structural engineering

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