Steel Design - LRFD AISC Steel Manual 13th edition Column Design Tutorial

Professor Louie L. Yaw

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1 Introduction

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

$$\phi P_n \ge P_{an}$$

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_xL_x/r_x , K_yL_y/r_y or possibly K_zL_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 deteremined 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 **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 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 PPI PE Structural Reference Manual, 10th Edition - Complete Review for the NCEES PE Structural Engineering (SE) Exam Alan Williams, 2021-09-21 The NCEES SE Exam is Open Book You Will Want to Bring This Book Into the Exam Alan Williams PE Structural Reference Manual Tenth Edition STRM10 offers a complete review for the NCEES 16 hour Structural Engineering SE exam This book is part of a comprehensive learning management system designed to help you pass the PE Structural exam the first time PE

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