

# 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:

$$\phi P_n \geq P_u$$

Therefore, column design requires the determination of  $\phi P_n$ . 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  $\phi P_n$ .

## 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.

$$K = 1.0$$

# Steel Structures Design Solution Manual Aisc 13

**Leonard Spiegel,George F. Limbrunner**

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*Comprehensive Structural Design Guide* Max Kurtz, 1969      **Tubular Structures XI** Jeffrey A. Packer, 2017-10-02 This topical book contains the latest scientific and engineering developments in the field of tubular steel structures as presented at the 11th International Symposium and IIW International Conference on Tubular Structures The International Symposium on Tubular Structures ISTS has a long standing reputation for being the principal showcase for manufactured tubing and the prime international forum for discussion of research developments and applications in this field Various key and emerging subjects in the field of hollow structural sections are covered such as novel applications and case studies static and fatigue behaviour of connections joints concrete filled and composite tubular members earthquake resistance specification and code developments material properties and structural reliability impact resistance and brittle fracture fire resistance casting and fabrication innovations Research and development issues presented in this book are applicable to buildings bridges offshore structures entertainment rides cranes towers and various mechanical and agricultural equipment This book is thus a pertinent reference source for architects civil and mechanical engineers designers steel fabricators and contractors manufacturers of hollow sections or related construction products trade associations involved with tubing owners or developers of tubular structures steel specification committees academics and research students The conference presentations herein include two keynote lectures the International Institute of Welding Houdremont Lecture and the ISTS Kurobane Lecture plus finalists in the CIDECT Student Papers Competition The 11th International Symposium and IIW International Conference on Tubular Structures ISTS11 took place in Quebec City Canada from August 31 to September 2 2006      **Modern Steel Construction** , 2009      **Design of Steel Structures** Jay Shen, Bulent Akbas, Onur Seker, Mahmoud Faytarouni, 2021-04-05 A straightforward overview of the fundamentals of steel structure design This hands on structural engineering guide provides concise easy to understand explanations of the design and behavior of steel columns beams

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