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Behaviour and design of stainless steel I-section columns in fire are investigated. • Advanced finite element models able to mimic response of stainless steel columns in fire are developed and validated. • New design rules for stainless steel I-section columns in fire are established. •

*Behaviour and design of stainless steel I-section columns ...*

Investigated web crippling behaviour of several cold-formed steel sections. • Developed advanced finite element models, validated and used in detailed parametric studies. • Proposed improved web crippling coefficients for AS/NZS4600/AISI S100 equations. • Developed predictive equations for the buckling loads for DSM based design. •

*Web crippling behaviour and design of cold-formed steel ...*

Abstract Cold-formed steel beams are increasingly used as floor joists and bearers in buildings. Their behaviour and moment capacities are influenced by lateral-torsional buckling when they are not laterally restrained adequately. Past research on lateral-torsional buckling has concentrated on hot-rolled steel beams.

*Behaviour and design of cold-formed steel beams subject to ...*

The main differences in behaviour may be seen when the carrying load reaches the inelastic behavioural

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stage. By increasing the steel grade, column represents typical load-strain response but it is shifted upwards. Generally, the transition around the ultimate load of the column becomes sharper when the yield strength of the used steel increases.

## *Behaviour and design of hexagonal concrete-filled steel ...*

Riveted joints are very rare in modern steel construction practice. The behaviour and design of riveted connections are very similar to bearing type of bolted constructions. Since structural rivets are driven hot, the rivet shank expands to fill the hole while being driven.

## *29 CONNECTION DESIGN - DESIGN REQUIREMENTS*

The behavior of steel structures is an intricate and fascinating topic. This course is intended to serve as a guide to the AASHTO Load and Resistance Factor Design (LRFD) Specifications and their representation of the behavior of steel bridge systems and members.

## *Structural Behavior of Steel - Continuing Education for*

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“Seismic Behavior and Design of Steel Shear Walls”, A. Astaneh-Asl, SEAONC Seminar, November 2001, San Francisco. 2 of 18 Some of the advantages of using steel plate shear wall to resist lateral loads are:  
1. The system, designed and detailed properly is very ductile and has relatively large energy dissipation capability.

*Seismic Behavior and Design of Steel Shear Walls*  
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