Connections in Steel Structures: Behaviour, Strength and Design

Behavior and Design of Flexibly Connected Building Frames

Connections in Steel Structures III: Behaviour, Strength and Design held in Trento, Italy, 29-31 May 1995. The workshop brought together the world's foremost experts in steel connections research, development, fabrication and design.

Connections in Steel Structures: Behaviour, strength and design - CRC Press Book
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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.

Structural steel systems have either welded or bolted connections. Precast reinforced concrete systems can be mechanically connected in many ways, while cast-in-place systems normally have monolithic connections. Timber systems are connected by nails, bolts, glue or by engineered connectors.

This chapter discusses the influence of the slip of the shear connection on composite joint behavior. The interface slip between the concrete slab and steel beam substantially affects the behavior of a composite joint. Intuitively, this slip effect is magnified when the composite beam adjacent to the joint is in partial shear interaction.

Bolted and welded connections are widely used in steel framed buildings and are of great importance to fire resistance of steel structures. Numerous studies on the behavior of fire exposed bolted and welded connections are reported in the literature [1-5]. However, only few studies are undertaken on the post-fire behavior of connections [6-13].