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Research on the shear transfer mechanism of CFT panel zoneConcrete filled double skin asymmetric tube sections subjected to pure bending; Connections; Influence of the angle in the strength of RHS K-joints in galvanized lattice girders; Over strength criteria of slotted connections with high yield strength steels; Finite element modelling of beam-to-column flush end plate connections utilising blind bolts; Shear behaviour of open beam-to-tubular column angle connections; Residual stress investigation of welded high strength steel box T-joints Branch plate-to-CHS T-connections: Finite element study and design recommendationsResponse of beam-to-tubular column angle connections subjected to combined flexure and axial loading; Capacity of CFRHS X-joints made of double-grade S420 steel; Experimental investigation of the static capacity of grade C450 RHS T and X truss joints; FEA of T & X joints in Grade C450 steel; Measurements vs. estimation of nominal and local strain in a tubular K-joint of a stinger; Lessons learned from testing of tubular steel joints after 30 year in service
Structural performance of TS590 high-strength steel welded tubular joints under extreme bending loadingNumerical investigation of welding residual stresses in planar bridge trusses made of CHS steel profiles; Analysis of the load transfer in composite columns with concrete filled hollow sections - bolts as load transfer devices; Proposed corrections for EN 1993-1-8, Part "Hollow Section Joints"; Nonlinear formulation for tubular X-joints in frame analysis; Numerical and analytical investigation of geometrical imperfections on adhesive bonded cast steel - steel joints
Axially loaded Elliptical Hollow Section X joints, Part I: Experiments and numerical calibration

Sommario/riassunto

Tubular Structures XIV contains the latest scientific and engineering developments in the field of tubular steel structures, as presented at the 14th International Symposium on Tubular Structures (ISTS14, Imperial College London, UK, 12-14 September 2012). 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 presentation and discussion of research, developments and applications in this field.