

## Cidect Design Guide 2

Memoirs of the Faculty of Engineering, Kumamoto University Kumamoto Daigaku. Kōgakubu 2001

*Tubular Structures XV* Eduardo de Miranda Batista 2015-04-23 Tubular Structures XV contains the latest scientific and engineering developments in the field of tubular structures, as presented at the 15th International Symposium on Tubular Structures (ISTS15, Rio de Janeiro, Brazil, 27-29 May 2015). The International Symposium on Tubular Structures (ISTS) has a long-standing reputation for being the principal Proceedings of the ... International Conference on Offshore Mechanics and Arctic Engineering 1996

Design Guide for Hollow Structural Section Connections J. A. Packer 1992

### **Artificial Intelligence Applications in Civil and Structural**

**Engineering** B. Kumar 1999 Contains a selection of papers presented at The Fifth International Conference on the Applications of Artificial Intelligence to Civil and Structural Engineering, held from 13-15 September 1999, at Oxford, England.

*Fatigue Design Procedure for Welded Hollow Section Joints* X-L Zhao 2000-05-22 Provides recommendations for the fatigue design of directly welded, unstiffened joints (or connections) between structural steel hollow sections, in uniplanar or multiplanar truss-type structural systems. The recommendations represent the current international consensus on practice. The fatigue design procedure is based on the 'hot spot stress approach'.

*Stability and Ductility of Steel Structures 2019* František Wald 2019-08-30 For more than forty years the series of International Colloquia on Stability and Ductility of Steel Structures has been supported by the Structural Stability Research Council (SSRC). Its objective is to present the latest results in theoretical, numerical and experimental research in the area of stability and ductility of steel and steel-concrete composite structures. In *Stability and Ductility of Steel Structures 2019*, the focus is on new concepts and procedures concerning the analysis and design of steel structures and on the background, development and application of rules and recommendations either appearing in recently published Codes or Specifications and in emerging versions, all in anticipation of the new edition of Eurocodes. The series of International Colloquia on Stability and Ductility of Steel Structures started in Paris in 1972, the last five being held in: Timisoara, Romania (1999), Budapest, Hungary (2002), Lisbon, Portugal (2006), Rio de Janeiro, Brazil (2010) and Timisoara, Romania (2016). The 2019 edition of SDSS is organized by the Czech Technical University in Prague.

**Engineering Journal** 2007

### **Contribution on the behavior of welded joints to metallic**

**structural elements with tubular section** Dr.-Ing. Patrick Heinemann 2023-02-22 Doctoral Thesis / Dissertation from the year 2022 in the subject Engineering - Civil Engineering, grade: Summa cum laude, , language: English, abstract: Steel structures, which are made of hollow section profiles are mainly used for construction structures. There are many fields of applications for structures made of hollow section profiles. Hollow section profiles are lightweight and have got a high resistance to compression, which is an advantage for column structures. The most common profile types have squared or circular hollow cross sections. Connecting two or more pipes by welding, the joints have got different shapes. These joints are part of trusses or columns with a tree-shaped optic. The standards have got restrictions regarding the geometry, material or load cases. By choosing a node, which is excluded in the standards, designing engineers have to create their own models. This thesis is about the designing of a Y-shaped steel joint, full overlapped on top connection, which is not defined in current standards up to the time the thesis is created. In this thesis only uniplanar joints are investigated. A special focus is on the welding line, which has got a three-dimensional shape. The aim is to figure out the influence on the inclination angle between the two members on the resistance of the joint. Beside this, the profile shape and profile thickness vary to see the differences in their resistance. Square and circular hollow section profiles are in focus. To analyse the behaviour of the different steel joints, a numerical and experimental investigation is executed. Design charts are created as a medium for designing engineers to calculate the ultimate resistance in the elastic and plastic state, depending on the steel profile, thickness and

inclination angle. The structure of the thesis is split into four main parts. Firstly, there is an explanation of the general topic with its difficultness. Secondly, there is the state-of-the-art presentation of literature and standards in this range. Thirdly, there is a numerical analysis of the joints. The basement of the numerical studies is detailed in pre-studies, which explain and compare different mesh types or geometrical variations. Fourthly, there is an experimental verification of the numerical tests. It is figured out, if the inclination angle increase, the resistance of the steel joint will decrease significantly. This effect is non-linear. Beside this, it is found, that the full overlapped joint with the squared profile has got a higher resistance than a comparable joint with a similar circular hollow section.

*Tubular Structures X M A Jaurietta* 2017-10-02 This volume contains the Kurobane lecture and proceedings of the Tenth International Symposium on Tubular Structures - ISTS10, held in Madrid, Spain, 18-20 September 2003. The ISTS10 provides a platform for the presentation and discussion of seventy-three lectures covering themes including: bridges; roofs; design aspects and case studies; static joint behaviour; fatigue; members; beam-column connections; finite element methods; concrete filled tubes; trusses and frames; cast nodes; and behaviour of tubular structures under fire. This book provides a useful reference work for architects, civil and mechanical engineers, designers, manufacturers and contractors involved with tubular structures.

*Structures with Hollow Sections* Dipak Dutta 2002-06-28 Structures using hollow sections are a special area within steel construction and are often ignored as such in publications. This work represents a comprehensive treatment of the whole field, from manufacture right up to useful applications in steel construction.

**The Structural Engineer** 2001

*International Journal of Offshore and Polar Engineering* 2007

**Advances in Structures** Lijuan Li 2010-12-06 Selected, peer-reviewed papers from the 2011 International Conference on Structures and Building Materials, (ICSBM 2011), 7-9 January, 2011, Guangzhou, China Guide to Stability Design Criteria for Metal Structures Structural Stability Research Council 1976 1st and 2d editions have title: Guide to design criteria for metal compression members.

*Welding Research Abroad* 2004

**Tubular Structures IX** R. Puthli 2026-03-02 A reference for architects and engineers, this work covers themes on architecture, case studies, and the application and strengths of tubular beams. This work contains the Kurobane Lecture and papers of the ninth international symposium and EuroConference on tubular structures. The symposium provided a platform for the presentation and discussion of a total of 67 peer reviewed papers, covering themes on architecture, case studies and the application and strengths of tubular beams. Looking at design aspects of this construction and technical issues such as columns and frames under static, dynamic and fire loading.;The text is designed as a reference for architects, civil and mechanical engineers, designers, fabricators and contractors involved in tubular structures.

Tubular Structures XII Z.Y. Shen 2008-09-11 Presentation of the latest scientific and engineering developments in the field of tubular steel structures. Covers key and emerging subjects of hollow structural sections, such as: static and fatigue behaviour of connections/joints, concrete filled hollow sections and composite tubular members, offshore structures, earthquake resistance.

**Building in Steel 1991** 1991

*Tubular Structures XI* Jeffrey A. Packer 2006-07-31 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 Québec City, Canada from August 31 to September 2, 2006.

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