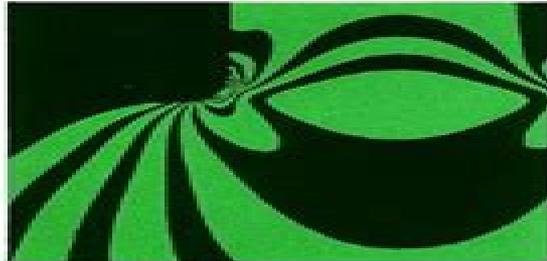


Second Edition

# FATIGUE STRENGTH *of* WELDED STRUCTURES

S J MADDOX



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# Fatigue Strength Of Welded Structures

**Timothy Russell Gurney**



## **Fatigue Strength Of Welded Structures:**

**Fatigue Strength of Welded Structures** S J Maddox,2014-03-14 The key to avoidance of fatigue which is the main cause of service failures is good design In the case of welded joints which are particularly susceptible to fatigue design rules are available However their effective use requires a good understanding of fatigue and an appreciation of problems concerned with their practical application Fatigue strength of welded structures has incorporates up to date design rules with high academic standards whilst still achieving a practical approach to the subject The book presents design recommendations which are based largely on those contained in recent British standards and explains how they are applied in practice Attention is also focused on the relevant aspects of fatigue in welded joints which are not yet incorporated in codes thus providing a comprehensive aid for engineers concerned with the design or assessment of welded components or structures Background information is given on the fatigue lives of welded joints which will enable the engineer or student to appreciate why there is such a contrast between welded and unwelded parts why some welded joints perform better than others and how joints can be selected to optimise fatigue performance Fatigue Strength of Welded Structures Kenneth George Richards,1969 *Fatigue Strength of Welded Structures* Stephen John Maddox,Woodhead Publishing,2002

**Fatigue of Welded Structures** Timothy Russell Gurney,1979-12-20 **Design and Analysis of Fatigue Resistant Welded Structures** Dieter Radaj,1990-01-03 An English version of a successful German book Both traditional and modern concepts are described Fatigue Strength of Welded Structures Kenneth George Richards,1969 Fracture and Fatigue of Welded Joints and Structures K Macdonald,2011-04-19 The failure of any welded joint is at best inconvenient and at worst can lead to catastrophic accidents Fracture and fatigue of welded joints and structures analyses the processes and causes of fracture and fatigue focusing on how the failure of welded joints and structures can be predicted and minimised in the design process Part one concentrates on analysing fracture of welded joints and structures with chapters on constraint based fracture mechanics for predicting joint failure fracture assessment methods and the use of fracture mechanics in the fatigue analysis of welded joints In part two the emphasis shifts to fatigue and chapters focus on a variety of aspects of fatigue analysis including assessment of local stresses in welded joints fatigue design rules for welded structures k nodes for offshore structures and modelling residual stresses in predicting the service life of structures With its distinguished editor and international team of contributors Fracture and fatigue of welded joints and structures is an essential reference for mechanical structural and welding engineers as well as those in the academic sector with a research interest in the field Analyses the processes and causes of fracture and fatigue focusing predicting and minimising the failure of welded joints in the design process Assesses the fracture of welded joints and structure featuring constraint based fracture mechanics for predicting joint failure Explores specific considerations in fatigue analysis including the assessment of local stresses in welded joints and fatigue design rules for welded structures **Techniques for Improving the Fatigue Strength of**

**Welded Structures** J. D. Harrison,1965      **Fatigue Design of Welded Joints and Components** A Hobbacher,1996-10-31

These recommendations present general methods for the assessment of fatigue damage in welded components which may affect the limit states of a structure such as ultimate limit state and serviceability limited state Fatigue resistance data is given for welded components made of wrought or extruded products of ferritic pearlitic or bainitic structural steels up to fy 700 Mpa and of aluminium alloys commonly used for welded structures      **Bibliography on the Fatigue of Welded**

**Structures** Mrs. R. C. Zoro,1970      *Fatigue Testing of Weldments* David W. Hoepfner,American Society for Testing and Materials. Committee E-9 on Fatigue,1978      Effective means for improving the fatigue strength of welded structures,

INTERNATIONAL INSTITUTE OF WELDING XIII-1574 Akihiko Ohta,1995      **Fatigue Strength of Welded Joints and**

**Fatigue Strength of Welded Joints: A Review of the Literature to July 1, 1936** ,1936 This report table of contents include Expressing Endurance Limit Endurance Limit of Welds and Welded Joints Processes Other Than Gas and Metallic Arc Correlation of Fatigue With Other Physical Properties Influence of Defects Mechanical Treatment Welding Technique Fatigue Tests of Weld Elements Thermal Treatment Carbon Content Alloys Corrosion Fatigue Methods of Design Repeated Impact Rail Joints Creep Boilers Tests of Welded Structures Riveting and Welding Bridges Vibrations Tubes      **Fatigue of Thin**

**Walled Joints Under Complex Loading** T R Gurney,Timothy Russell Gurney,1997-07-21 A report containing the results of a TWI Group Sponsored Project beneficial to designers of thin walled structures especially those in the transport industry It serves as a valuable source of reference for a wide range of welding engineers and structural analysts      **The Fatigue**

**Strength of Transverse Fillet Welded Joints** T R Gurney,1991-01-03 This report is the result of a major study on the influence of both main plate thickness and of attachment size on the fatigue strength of joints with transverse non load carrying fillet welds In particular it defines the extent to which the size of the attachment might influence the thickness effect in such joints Through a whole range of different tests the study confirms that the present thickness effect correction for certain types of joint is too severe      **IIW Guidelines on Weld Quality in Relationship to Fatigue Strength** Bertil

Jonsson,G. Dobmann,A. F. Hobbacher,M. Kassner,G. Marquis,2016-04-13 This book presents guidelines on quantitative and qualitative measures of the geometric features and imperfections of welds to ensure that it meets the fatigue strength requirements laid out in the recommendations of the IIW International Institute of Welding Welds that satisfy these quality criteria can be assessed in accordance with existing IIW recommendations based on nominal stress structural stress notch stress or linear fracture mechanics Further the book defines more restrictive acceptance criteria based on weld geometry features and imperfections with increased fatigue strength Fatigue strength for these welds is defined as S N curves expressed in terms of nominal applied stress or hot spot stress Where appropriate reference is made to existing quality systems for welds In addition to the acceptance criteria and fatigue assessment curves the book also provides guidance on their inspection and quality control The successful implementation of these methods depends on adequate training for

operators and inspectors alike As such the publication of the present IIW Recommendations is intended to encourage the production of appropriate training aids and guidelines for educating training and certifying operators and inspectors *IIW Recommendations for the Fatigue Assessment of Welded Structures By Notch Stress Analysis* W Fricke,2012-10-22 The notch stress approach for fatigue assessment of welded joints is based on the highest elastic stress at the weld toe or root In order to avoid arbitrary or infinite stress results a rounded shape with a reference radius instead of the actual sharp toe or root is usually assumed IIW recommendations for the fatigue assessment of welded structures by notch stress analysis reviews different proposals for reference radii together with associated S N curves Detailed recommendations are given for the numerical analysis of notch stress by the finite or boundary element method Several aspects are discussed such as the structural weakening by keyhole shaped notches and the consideration of multiaxial stress states Appropriate S N curves are presented for the assessment of the fatigue strength of different materials Finally four examples illustrate the application of the approach as well as the variety of structures which can be analysed and the range of results that can be obtained from different models Provides detailed recommendations for the number analysis of notch stress by the finite or boundary element method Discusses structural weakening by keyhole shaped notches and the consideration of multiaxial stress states Provides four comprehensive examples illustrating the variety of structures which can be analysed and the range of results that can be obtained from different models

**Improving the Fatigue Life of High Strength Steel Welded Structures by Post Weld Treatments and Specific Filler Material (FATWELDHSS)** ,2015 The objective of the FATWELDHSS project was to study post weld treatment techniques and their effect on the fatigue life of MAG welded attachments in High Strength Steel HSS Fatigue cracks in steel structures often occur at welded joints where stress concentrations due to the joint geometry and tensile residual stresses are relatively high Fatigue life improvement techniques which rely on improving the stress field and or the surface geometry around the welded joints are generally known to be beneficial Therefore within the framework of this project the following were examined diode laser weld toe re melting High Frequency Mechanical Impact HFMI treatment Low Transformation Temperature LTT filler wires Laser diode re melting was used to improve the surface profile at the weld toe and thus reduce stress concentrations HFMI treatment involving high frequency hammering of the weld toe is another technique that can produce a smooth weld toe profile but more significantly which also can introduce compressive residual stresses Lastly two new LTT filler wires were developed within the project as these can decrease or even remove tensile residual stresses resulting from weld zone shrinkage An extensive fatigue testing programme was set up to establish the levels of improvement in the fatigue lives of the welded attachments achieved by application of the selected improvement techniques Furthermore two industrial demonstrators were selected that could show the project achievements in terms of facilitating the introduction of high strength steels by overcoming the limitations posed by the fatigue properties of the welded joints In addition modelling tools were developed to predict the residual stresses at the welded joint Finally

practical guidelines were developed for enhancing the fatigue strength of HSS welded structures Analysis of Welded Structures Koichi Masubuchi, 2013-10-22 Analysis of Welded Structures Residual Stresses Distortion and their Consequences encompasses several topics related to design and fabrication of welded structures particularly residual stresses and distortion as well as their consequences This book first introduces the subject by presenting the advantages and disadvantages of welded structures as well as the historical overview of the topic and predicted trends Then this text considers residual stresses heat flow distortion fracture toughness and brittle and fatigue fractures of weldments This selection concludes by discussing the effects of distortion and residual stresses on buckling strength of welded structures and effects of weld defects on service behavior This book also provides supplementary discussions on some related and selected subjects This text will be invaluable to metallurgists welders and students of metallurgy and welding *Fatigue Analysis of Welded Structures Using the Finite Element Method* Mustafa Ayg L, Mustafa Aygöl, 2012-05 Fatigue design and analysis of steel and composite bridges is generally based on the notion of the nominal stress using the classified S N curves with corresponding fatigue classes for typical details Such an approach can yield an unrealistic estimation of the load effects for structure components because of an ever increasing number of structural details and loading situations resulting in a limited number of possible treatable design cases The advanced failure methods have been developed to enable an accurate estimation of the load effects for the fatigue strength of welded steel structures in cases where the nominal stress is hard to estimate because of geometric and loading complexities or in cases where there is no classified detail that is suitable to be compared with The overall objective of this study is to evaluate the applicability and reliability of the common fatigue life assessment methods using the finite element method The failure methods considered are the nominal stress hot spot stress and effective notch stress method A number of frequently used bridge details have been evaluated for the purpose of comparing the equivalency between these methods

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