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Welded Joints and Components (IIW Collection) Hardcover – 6 Jan. 2016 by A. F. Hobbacher (Author) 4.5 out of 5 stars 2 ratings See all formats and editions

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Recommendations for Fatigue Design of Welded Joints and Components. Provides a basis for the design and analysis of welded components subject to fluctuating load forces. Features best practices for producing welds that avoid fatigue failure. Suggests guidelines for boards or commissions responsible for establishing fatigue design codes.

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Fatigue is a major cause of failure, particularly in welded structures, reflecting the inherently poor fatigue performance of many welded joints (Fig.1).This emphasises the need for due

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consideration of potential fatigue failure at the design stage, and for clear design guidance. In fact, considerable effort has gone into the production or revision of fatigue design rules in recent years, particularly in the European Union in view of the adoption of common Standards.

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A copy of the recommendations can be found here Recommendations for Fatigue Design of Welded Joints and Components Weld Classifications. For purposes of evaluating fatigue, weld joints are divided into several classes. The classification of a weld joint depends on: the macroscopic geometry of the pieces welded, the direction of the cyclic stresses,

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these fatigue design recommendations.

Also referred to as standard structural detail. Concentrated load effect i) A local stress field in the vicinity of a point load or reaction force, ii) membrane and shell bending stresses due to loads causing distortion of a cross section not sufficiently stiffened by a diaphragm.

Constant amplitude

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Recommendations For Fatigue Design Of
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This book provides a basis for the design and analysis of welded components that are subjected to fluctuating forces, to avoid failure by fatigue. It is also a valuable resource for those on boards or commissions who are establishing fatigue design codes. For maximum benefit, readers should already have a working knowledge of the basics of fatigue and fracture mechanics. The purpose of designing a structure taking into

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consideration the limit state for fatigue damage is to ensure that the performance is satisfactory during the design life and that the survival probability is acceptable.

The latter is achieved by the use of appropriate partial safety factors. This document has been prepared as the result of an initiative by Commissions XIII and XV of the International Institute of Welding (IIW).

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 $f_y = 700$ Mpa and of aluminium alloys commonly used for

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Recommendations For welded structures. Design Of Welded Joints And Components Iiw Collection

This International Institute of Welding (IIW) report was presented at the 52nd Annual Assembly in Lisbon in June 1999. It contains recommendations representing a consensus on international best practice, focusing on a 'hot spot stress' approach. A wide range of joint types is covered, the new fatigue design curve for both RHS and CHS is dealt with and detailed values for stress concentration factors are provided. The purpose of this current IIW document is to serve both as an International Standards Organisation (ISO) draft specification and as a model standard for national and regional specifications worldwide. The Recommendations (Part one) and Commentary (Part two) were edited by Dr

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X-L Zhao of Monash University, Australia and Professor J A Packer of the University of Toronto, Canada.

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

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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

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Understanding the fatigue behaviour of structural components under variable load amplitude is an essential prerequisite for safe and reliable light-weight design. For designing and dimensioning, the expected stress (load) is compared with the capacity to withstand loads (fatigue strength). In this process, the safety necessary for each

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particular application must be ensured. A prerequisite for ensuring the required fatigue strength is a reliable load assumption. The authors describe the transformation of the stress- and load-time functions which have been measured under operational conditions to spectra or matrices with the application of counting methods. The aspects which must be considered for ensuring a reliable load assumption for designing and dimensioning are discussed in detail. Furthermore, the theoretical background for estimating the fatigue life of structural components is explained, and the procedures are discussed for numerous applications in practice. One of the prime intentions of the authors is to provide recommendations which can be implemented in practical applications.

This report provides background and

guidance on the use of the structural hot spot stress approach to the fatigue design of welded components and structures. It complements the IIW recommendations for 'Fatigue Design of Welded Joints and Components' and extends the information provided in the IIW recommendations on 'Stress Determination for Fatigue Analysis of Welded Components'. This approach is applicable to cases of potential fatigue cracking from the weld toe. It has been in use for many years in the context of tubular joints. The present report concentrates on its extension to structures fabricated from plates and non-tubular sections. Following an explanation of the structural hot spot stress, its definition and its relevance to fatigue, the authors describe methods for its determination. Stress determination from both finite element analysis and strain gauge measurements is considered. Parametric

formulae for calculating stress increases due to misalignment and structural discontinuities are also presented. Special attention is paid to the use of finite element stress analysis and guidance is given on the choice of element type and size for use with either solid or shell elements. Design S-N curves for use with the structural hot spot stress are presented for a range of weld details. Finally, practical application of the recommendations is illustrated in two case studies involving the fatigue assessment of welded structures using the structural hot spot stress approach. Provides practical guidance on the application of the structural hot-spot stress approach

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