



IIW Guidelines on Weld Quality in Relationship to Fatigue Strength (IIW Collection)

By Bertil Jonsson, G. Dobmann, A. F. Hobbacher, M. Kassner, G. Marquis



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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.

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Editorial Review

From the Back Cover

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About the Author

The authors are well-known professional Researchers in Welding technology and material sciences.

Users Review

From reader reviews:

Warren Damron:

Do you have favorite book? When you have, what is your favorite's book? E-book is very important thing for us to be aware of everything in the world. Each publication has different aim or perhaps goal; it means that reserve has different type. Some people feel enjoy to spend their time and energy to read a book. These are reading whatever they get because their hobby is definitely reading a book. Consider the person who don't like reading a book? Sometime, individual feel need book once they found difficult problem as well as exercise. Well, probably you'll have this IIW Guidelines on Weld Quality in Relationship to Fatigue Strength (IIW Collection).

Jeffrey Paolucci:

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about something that you need instance. How to get the good score toefl, or how to teach your sons or daughters, there are many kinds of book that exist now. The authors nowadays always try to improve their ability in writing, they also doing some exploration before they write with their book. One of them is this IIW Guidelines on Weld Quality in Relationship to Fatigue Strength (IIW Collection).

Brenda Seddon:

A lot of people always spent their free time to vacation or go to the outside with them loved ones or their friend. Did you know? Many a lot of people spent that they free time just watching TV, as well as playing video games all day long. If you wish to try to find a new activity this is look different you can read some sort of book. It is really fun for you. If you enjoy the book you read you can spent the whole day to reading a book. The book IIW Guidelines on Weld Quality in Relationship to Fatigue Strength (IIW Collection) it is extremely good to read. There are a lot of those who recommended this book. These people were enjoying reading this book. If you did not have enough space to develop this book you can buy the actual e-book. You can m0ore quickly to read this book out of your smart phone. The price is not very costly but this book offers high quality.

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