



# Fatigue Assessment of Welded Joints by Local Approaches, Second Edition

## (Woodhead Publishing Series in Welding and Other Joining Technologies)

By Dieter Radaj, C M Sonsino, W Fricke

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### Fatigue Assessment of Welded Joints by Local Approaches, Second Edition (Woodhead Publishing Series in Welding and Other Joining Technologies)

By Dieter Radaj, C M Sonsino, W Fricke

Local approaches to fatigue assessment are used to predict the structural durability of welded joints, to optimise their design and to evaluate unforeseen joint failures. This standard work provides a systematic survey of the principles and practical applications of the various methods. It covers the hot spot structural stress approach to fatigue in general, the notch stress and notch strain approach to crack initiation and the fracture mechanics approach to crack propagation. Seam-welded and spot-welded joints in structural steels and aluminium alloys are also considered.

This completely reworked second edition takes into account the tremendous progress in understanding and applying local approaches which has been achieved in the last decade. It is a standard reference for designers, structural analysts and testing engineers who are responsible for the fatigue-resistant in-service behaviour of welded structures.

- Completely reworked second edition of a standard work providing a systematic survey of the principles and practical applications of the various methods
- Covers the hot spot structural stress approach to fatigue in general, the notch stress and notch strain approach to crack initiation and the fracture mechanics approach to crack propagation.
- Written by a distinguished team of authors

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## **Bibliography**

- Sales Rank: #2136460 in Books
- Published on: 2006-11-13
- Original language: English
- Number of items: 1
- Dimensions: 9.40" h x 1.92" w x 6.42" l, 2.44 pounds
- Binding: Hardcover
- 660 pages

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### **Review**

...a standard reference for designers, structural analysts and testing engineers., Welding and Cutting

### **About the Author**

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*Professor Dr-Ing. Wolfgang Fricke* is Head of the Institute for Ship Structural Design and Analysis at Hamburg University of Technology, Germany.

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