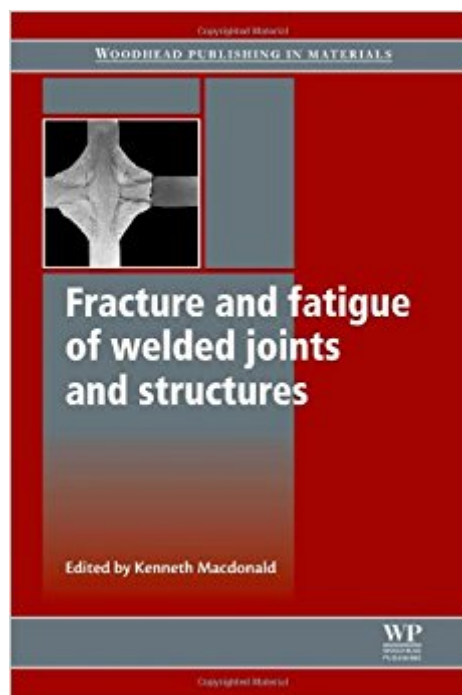




**Ebook Directory**  
the best source of ebook

**The book was found**

# **Fracture And Fatigue Of Welded Joints And Structures (Woodhead Publishing Series In Welding And Other Joining Technologies)**



## Synopsis

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

## Book Information

Series: Woodhead Publishing Series in Welding and Other Joining Technologies

Hardcover: 360 pages

Publisher: Woodhead Publishing; 1 edition (May 3, 2011)

Language: English

ISBN-10: 1845695135

ISBN-13: 978-1845695132

Product Dimensions: 9.3 x 1 x 6.2 inches

Shipping Weight: 1.5 pounds

Average Customer Review: Be the first to review this item

Best Sellers Rank: #2,892,595 in Books (See Top 100 in Books) #93 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Fracture Mechanics #201

in Books > Engineering & Transportation > Engineering > Materials & Material Science > Strength of Materials #400 in Books > Engineering & Transportation > Engineering > Mechanical >

## Customer Reviews

This book is a timely addition to the body of literature on the subject and will be of undoubted value to both researchers and practitioners as a reference of current thinking., Materials World

Kenneth Macdonald is Professor in the Department of Mechanical and Structural Engineering and Materials Science at the University of Stavanger, Norway.

[Download to continue reading...](#)

Fracture and Fatigue of Welded Joints and Structures (Woodhead Publishing Series in Welding and Other Joining Technologies) Fracture and Fatigue Control in Structures: Applications of Fracture Mechanics (Prentice-Hall International Series in Civil Engineering and Engineering Mechanics) Fracture and Fatigue Control in Structures: Applications of Fracture Mechanics (Astm Manual Series) Adrenal Fatigue: Overcome Adrenal Fatigue Syndrome, Boost Energy Levels, and Reduce Stress (Adrenal Fatigue Syndrome, Reduce Stress, Adrenal Fatigue Diet, Adrenal Reset Diet Book 1) Wear of Orthopaedic Implants and Artificial Joints (Woodhead Publishing Series in Biomaterials) Ultra-Supercritical Coal Power Plants: Materials, Technologies and Optimisation (Woodhead Publishing Series in Energy) Chronic Fatigue Syndrome And Your Emotions: How To Successfully Treat Chronic Fatigue Syndrome In The Natural Way-A Key For Recovery (Chronic Fatigue Syndrome, ... Syndrome Fibromyalgia, Lupus, Book 3) Gut: The Key to Ultimate Health - SIBO, IBS & Fatigue (GAPS, Candida, Chronic Fatigue, Fibromyalgia, Adrenal Fatigue, SIBO, Parasites) ISO 13920:1996, Welding - General tolerances for welded constructions - Dimensions for lengths and angles - Shape and position Strengthening of Reinforced Concrete Structures: Using Externally-Bonded Frp Composites in Structural and Civil Engineering (Woodhead Publishing Series in Civil and Structural Engineering) Handbook of Structural Welding, Processes, materials and methods used in the welding of major structures, pipelines and process plants. Fracture Mechanics of Concrete: Applications of Fracture Mechanics to Concrete, Rock and Other Quasi-Brittle Materials Fracture Mechanics of Metals, Composites, Welds, and Bolted Joints: Application of LEFM, EPFM, and FMDM Theory KINDLE PUBLISHING: How To Build A Successful Self-Publishing Business With Kindle and Createspace. A Detailed, Step-By-Step Guide To The Entire Process (Kindle Publishing Series Book 1) Probabilistic fracture mechanics and reliability (Engineering Applications of Fracture Mechanics) Structural Dynamics of Earthquake Engineering: Theory and Application Using Mathematica and Matlab (Woodhead Publishing Series in Civil and

Structural Engineering) Handbook of Organic Materials for Optical and (Opto)Electronic Devices: Properties and Applications (Woodhead Publishing Series in Electronic and Optical Materials) Principles and Applications of Organic Light Emitting Diodes (OLEDs) (Woodhead Publishing Series in Electronic and Optical Materials) Advances in Wrought Magnesium Alloys: Fundamentals of Processing, Properties and Applications (Woodhead Publishing Series in Metals and Surface Engineering) Coal Power Plant Materials and Life Assessment: Developments and Applications (Woodhead Publishing Series in Energy)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)