



# Multiaxial Fatigue and Fracture



Editors: E. Macha  
W. Będkowski & T. Łagoda

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# Multiaxial Fatigue And Fracture

**Yongming Liu**

## **Multiaxial Fatigue And Fracture:**

Multiaxial Fatigue and Fracture E. Macha,W. Bedkowski,T. Lagoda,1999-09-06 This volume contains 18 papers selected from 90 presented at the Fifth International Conference on Biaxial Multiaxial Fatigue and Fracture held in Cracow Poland 8 12 September 1997 The papers in this book deal with theoretical computational and experimental aspects of the multiaxial fatigue and fracture of engineering materials and structures The papers are divided into the following four categories 1 Proportional cyclic loading 2 Non proportional cyclic loading 3 Variable amplitude and random loading 4 Crack growthMost papers in this publication talk about the behaviour of constructional materials and elements of machines under non proportional loading and under variable amplitude and random loading which are more realistic load histories met in industrial practice Variable amplitude loading under cyclic load with basic frequency and random loading under load with a continuous band of frequency is classified here This book gives a review of the latest world success and directions of investigations on multiaxial fatigue and fracture More and more often publications are results of the co operation of researchers from different laboratories and countries Seven out of eighteen papers included here were worked out by international authors teams This is a symptom of the times when science and investigations know no borders

**Biaxial/Multiaxial Fatigue and Fracture** Andrea Carpinteri,Manuel De Freitas,Andrea Spagnoli,2003-03-19 The European Structural Integrity Society ESIS Technical Committee on Fatigue of Engineering Materials and Structures TC3 decided to compile a Special Technical Publication ESIS STP based on the 115 papers presented at the 6th International Conference on Biaxial Multiaxial Fatigue and Fracture The 25 papers included in the STP have been extended and revised by the authors The conference was held in Lisbon Portugal on 25 28 June 2001 and was chaired by Manual De Freitas Instituto Superior Tecnico Lisbon The meeting organised by the Instituto Superior Tecnico and sponsored by the Portuguese Ministerio da Cienca e da Tecnologia and by the European Structural Integrity Society was attended by 151 delegates from 20 countries The papers in the present book deal with the theoretical numerical and experimental aspects of the Multiaxial fatigue and fracture of engineering materials and structures They are divided in to the following six sections Multiaxial Fatigue of Welded Structures High cycle Multiaxial fatigue Non proportional and Variable Amplitude loading Defects Notches Crack Growth Low Cycle Multiaxial Fatigue Applications and Testing Methods As is well known most engineering components and structures in the mechanical aerospace power generation and other industries are subjected to multiaxial loading during their service life One of the most difficult tasks in design against fatigue and fracture is to translate the information gathered from uniaxial fatigue and fracture tests on engineering materials into applications involving complex states of cyclic stress strain conditions This book is the result of co operation between many researchers from different laboratories universities and industries in a number of countries *Multiaxial Fatigue* Darrell Socie,Gary Marquis,1999-12-15 This book provides practicing engineers researchers and students with a working knowledge of the

fatigue design process and models under multiaxial states of stress and strain Readers are introduced to the important considerations of multiaxial fatigue that differentiate it from uniaxial fatigue      **Biaxial/Multiaxial Fatigue and Fracture**  
L. P Pook,Ky Dang Van,Cetin Morris Sonsino,2003      **Multiaxial Notch Fatigue** Luca Susmel,2009-03-20 Metal and composite components used in structural engineering not only contain geometrical features resulting in stress concentration phenomena but they are also subjected to in service multiaxial fatigue loading To address the problem structural engineers need reliable methodologies which allow for an adequate margin of safety The book summarises methods devised by the author to design real components against multiaxial fatigue by taking full advantage not only of nominal but also of local stress strain quantities The book begins by reviewing definitions suitable for calculating the stress strain quantities commonly used to perform fatigue assessment The Modified Wöhler Curve Method is then explained in detail by focusing attention on both the high and the medium cycle fatigue regime The existing links between the multiaxial fatigue criterion and physical properties are also discussed A procedure suitable for employing the method developed by the author to estimate fatigue damage both in notched and in welded components is explained The Modified Manson Coffin Curve method is investigated in depth by reviewing those concepts playing a fundamental role in the so called strain based approach Lastly the problem of performing the fatigue assessment of composite materials is addressed by considering design parameters influencing composite behaviour under complex cyclic loading paths and those criteria suitable for designing real components against multiaxial fatigue The book also contains two appendices summarising experimental data from the technical literature These appendices provide a unique and highly valuable resource for engineers The appendices summarise around 100 values of the material characteristic length  $L$  experimentally determined by testing specimens made of different engineering materials and about 4500 experimental fatigue results generated by testing plain notched and welded specimens under constant amplitude proportional and non proportional multiaxial fatigue loading are listed Summarises methods devised by the author to design real components against multiaxial fatigue Reviews definitions suitable for calculating the stress strain quantities commonly used to perform fatigue assessment Includes an in depth explanation of both the Modified Wöhler Curve and Modified Manson Coffin Curve Method      **Advances in Multiaxial Fatigue** David L. McDowell,Rod Ellis,1993 Papers presented at the ASTM Symposium on Multiaxial Fatigue held in San Diego November 1991 to communicate the most recent international advances in multiaxial cyclic deformation and fatigue research as well as applications to component analysis and design The 24 papers are grouped into five ca      **Multiaxial Fatigue and Fracture: A Literature Review** ,1984 Problems often arise when attempting to determine the fatigue behaviour of structural components from laboratory data A major reason for this lack of correlation is that most engineering components operate in stress environments significantly more complicated than uniaxial tension the stress state in which most research studies are conducted A review of the literature has shown that virtually all fatigue and fracture properties of metals and components

are affected by multidirectional loading In particular variations in stress state compared with uniaxial tension produce the following effects a decreases in the fatigue limit by up to approximately 50% b increases or decreases in low cycle fatigue life by factors of up to 20 depending on whether the stress in the second direction is tensile or compressive and is static or cyclic c out of phase loading also reduces the low cycle fatigue life by a factor of up to 4 compared with in phase loading and d acceleration and retardations of fatigue crack growth rates by factors of 3 to 4 depending on the nature of the transverse stress It is also evident that multiaxial criteria used for design purposes can be non conservative especially under out of phase loading and consequently can lead to unsafe estimates of the fatigue life of a component Originator supplied keywords include Multiaxial stress Low cycle fatigue Fracture properties Fatigue tests Crack propagation Metal fatigue

**Multiaxial Fatigue** Keith John Miller,Michael W. Brown,1985     **Stochastic Modeling of Multiaxial Fatigue and Fracture**

Yongming Liu,2006     **Multiaxial Notch Fracture and Fatigue** Xiangqiao Yan,2023-02-28 This book presents the unified fatigue life prediction equation for low medium high cycle fatigue of metallic materials relevant to plain materials and notched components The unified fatigue life prediction equation is the W hler equation in which the stress based intensity parameter is calculated based on the linear elastic analysis A local approach for the static fracture analysis for notched components is presented based on the notch linear elastic stress field In the local approach a stress intensity parameter is taken as a stress based intensity parameter Experimental verifications show that the local approach is also suited for the static fracture analysis for notched components made of ductile materials The book is also concerned with a material failure problem under the multiaxial stress states A concept of the material intensity parameter is introduced in this book It is a material property parameter that depends on both Mode I fracture toughness and Mode II or Mode III fracture toughness and the multiaxial parameter to characterize the variation of the material failure resistance notch fracture toughness with the multiaxial stresses states The failure condition to assess mixed mode fracture of notched or cracked components is stated as the stress based intensity parameter being equal to the material intensity parameter With respect to the traditional S N equation a similar S N equation is presented and verified to have high accuracy This book will be of interest to professionals in the field of fatigue and fracture for both brittle and ductile materials

**Multiaxial Fatigue and Deformation**

Sreeramesh Kalluri,Peter J. Bonacuse,2000 Contains papers from a May 1999 symposium describing state of the art multiaxial testing techniques and analytical methods for characterizing fatigue and deformation behaviors of engineering materials Papers are classified into sections on multiaxial strength of materials multiaxial deformation

**A Review of Multiaxial Fatigue and Fracture of Fibre-reinforced Composites (U)** Paul William Beaver,AERONAUTICAL RESEARCH LABS MELBOURNE (Australia),1987 A review of the limited number of papers in the literature on multiaxial fatigue and fracture of fibre reinforced composites has shown that biaxial stress states can have a significant effect on both the fatigue and fracture properties of these materials In addition none of the presently available failure theories for composites agrees with the

observed experimental results with sufficient accuracy to be confidently used for design purposes  
Keywords Multiaxial stress  
Fracture strength Fatigue life Fatigue limit Fibre reinforced composites Australia *Biaxial/multiaxial Fatigue and Fracture*  
L. P. Pook, International Conference on Biaxial, Multiaxial Fatigue and Fracture, 2003 *Mixed-mode Fracture in Ductile*  
*Materials and Low-cycle Multiaxial Fatigue Theory* Yenkai Wang, 1998 *International Conference on Biaxial, Multiaxial*  
*Fatigue and Fracture : ICBMF ; 3 ,1989* *6th ICB/MF&F.* Manuel de Freitas, 2001 **Biaxial and Multiaxial Fatigue**  
**(EGF 3)** M. W. Brown, Keith John Miller, 1989 The 36 paper spresented in this volume were presented at the second  
international conference on biaxial multiaxial fatigue *Proceedings of the Seventh International Conference on*  
*Biaxial/Multiaxial Fatigue and Fracture* ICBMFF, Deutscher Verband für Materialforschung und -prüfung, 2004 *Multiaxial*  
*Fatigue and Deformation Testing Techniques* Sreeramesh Kalluri, 1997 Fourteen papers from the May 1995 symposium focus  
on the advances that new materials testing equipment and digital computers have made possible Representative topics  
testing facilities for multiaxial loading of tubular specimens biaxial deformation experiments over multiple string regimes  
charac *The Ninth International Conference on Multiaxial Fatigue & Fracture, 7th-9th June 2010, Parma, Italy ,2010*

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