



Multiaxial Fatigue

Keith John Miller, Michael W. Brown



Multiaxial Fatigue:

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

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

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 *Multiaxial Fatigue* Gail E. Leese, Darrell Socie, 1989 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 growth Most 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 **Multiaxial Fatigue** Keith John Miller, Michael W. Brown, 1985

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 Wohler Curve and Modified Manson Coffin Curve Method.

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 Manuel De Freitas. Instituto Superior Tecnico Lisbon. The meeting organised by the Instituto Superior Tecnico and sponsored by the Portuguese Ministerio da Ciencia 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 into 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.

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 categories: **Biaxial and Multiaxial Fatigue (EGF 3)** M. W. Brown, Keith John Miller, 1989 The 36 papers presented in this volume were presented at the second international conference on biaxial multiaxial fatigue **Multiaxial Fatigue**, 1985 **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 characterized by **Multiaxial Fatigue and Design (ESIS 21)** André Pineau, Georges Cailletaud, T. C. Lindley, 1996-04-11 A compilation of leading work in multiaxial fatigue Multiaxial Fatigue and Design is a collection of 32 papers presented at the Fourth International Conference on Biaxial Multiaxial Fatigue Compiled by the ESIS these papers represent the work being done at the very forefront of the field reviewed by international experts and condensed into a single volume reference Covering the mechanical behavior of materials low cycle fatigue high cycle fatigue and design this collection provides a comprehensive view of the current body of knowledge from a variety of perspectives and contexts **Cyclic plasticity modeling and multiaxial fatigue assessment for an austenitic steel** Jie Fang, 2015-07-23 The present work aims at engineers and scientists in the field of computational mechanics of materials The objective of this work is to develop a suitable constitutive law and apply it to study effects of cyclic loading and geometry on the fatigue assessment Firstly a systematical investigation on the mechanical behaviors of an austenitic stainless steel is carried out Different multiaxial fatigue life prediction models are studied to assess fatigue damage The Karim Ohno kinematic hardening model is extended to incorporate more complex mechanical behaviors The proposed constitutive model is implemented into FEM code ABAQUS Finally a computational fatigue analysis methodology is proposed for performing life prediction of notched components based on elastic plastic computation **Spectral Method in Multiaxial Random Fatigue** Adam Nieslony, Ewald Macha, 2007-09-04 This monograph examines the theoretical foundations of the spectral method for fatigue life determination The authors discuss a rule of description of random loading states with the matrix of power spectral density functions of the stress strain tensor components Some chosen criteria of multiaxial fatigue failure are analyzed The formula proposed in this book enables readers to determine power spectral density of the equivalent history directly from the components of the power spectral density matrix of the multidimensional stochastic process **Multiaxial Fatigue** YS. Garud, 1981 This paper surveys the current state of knowledge concerning multiaxial fatigue Developments are presented in chronological order and are discussed so as to supplement existing reviews in this field Emphasis is placed primarily on the criteria or methods of evaluation of fatigue strength under general multiaxial loading at room temperature The survey indicates that the early development of the criteria was based on extensions of static yield theories to fatigue under combined stresses These are stress based criteria limited primarily to high cycle fatigue Most

of the later criteria are strain based These criteria fall into two broad groups the equivalent stress or strain type and the critical plane type Most of these criteria commonly lack considerations of the cyclic stress strain response Their application to nonproportional loading suffers from difficulties in implementation or from inconsistencies with results of experiments Recent approaches fall in the category of continuous damage evaluation methods At present these appear to be abstract or difficult to implement All the above criteria are critically examined and compared With this background a new plastic work approach proposed by the author is discussed briefly

Multiaxial Fatigue Criteria for AISI 304 and 2-1, 1982 An improved multiaxial fatigue failure criterion was developed based on the results of combined axial torsional strain cycling tests of AISI 304 and 2 1 4 Cr 1 Mo steel conducted at 538 C 1000 F The formulation of this criterion involves the shear and normal components of inelastic strain range on the planes of maximum inelastic shear strain range Optimum values of certain parameters contained in the formulation were obtained for each material by the method of least squares The ability of this criterion to correlate the test results was compared with that of the usual Mises equivalent inelastic strain range criterion An improved definition of equivalent inelastic strain range resulting from these considerations was used to generalize the theory of Strain Range Partitioning to multiaxial stress strain conditions and was also applied to the linear summation of creep and fatigue damage

High-Cycle Metal Fatigue Ky Dang Van, Ioannis V. Paradopoulos, 2014-05-04 This book is devoted to the high cycle fatigue behaviour of metal components thus covering essential needs of current industrial design The new developments included in the book rely on the use of the mesoscopic scale approach in metal fatigue and allow the specific handling of such difficult fatigue problems as multiaxial non proportional loading conditions

A Method Based on Virtual Strain-Energy Parameters for Multiaxial Fatigue Life Prediction KC. Liu, 1993 A new method is proposed for multiaxial fatigue life prediction using correlation parameters based on virtual strain energy as a measure of fatigue damage on critical planes of fracture The virtual strain energy parameters are physically associated with two different modes of fatigue fracture planes The critical plane leading to Mode I fracture is driven by the principal stress and strain and the other leading to Mode II fracture is driven by the maximum shear stress and strain The mode of crack initiation and propagation depends on material temperature strain range and stress and strain histories but not on the relative magnitude of the virtual strain energy parameters Biaxial fatigue data obtained from the literature were analyzed for Type 304 stainless steel tested at room and elevated temperatures and for SAE 1045 steel tested at room temperature under in phase and 90 out of phase loading conditions Comparisons are made between experimental data and theoretical predictions to show the effectiveness of the proposed method

Dynamics of Civil Structures, Volume 2 Shamim Pakzad, 2025-08-07 Dynamics of Civil Structures Volume 2 Proceedings of the 38th IMAC A Conference and Exposition on Structural Dynamics 2020 the second volume of eight from the Conference brings together contributions to this important area of research and engineering The collection presents early findings and case studies on fundamental and applied aspects of the Dynamics of Civil Structures

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