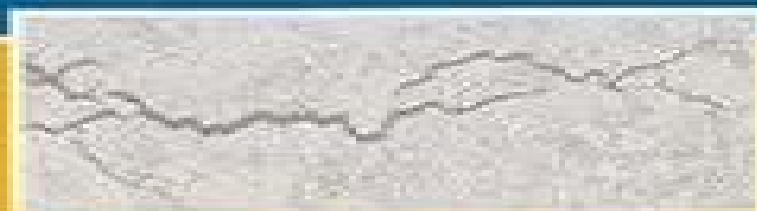


PROCEEDINGS

CREEP & FRACTURE IN HIGH TEMPERATURE COMPONENTS - DESIGN & LIFE ASSESSMENT ISSUES



EGCC Creep Conference
September 12-14, 2005
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Edited by

I. A. Shibli
S. R. Holdsworth
G. Merckling

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Creep Fracture In High Temperature Components Design Life Assessment Issues

Jin-Ying Zhang



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Creep and Fracture in High Temperature Components European Creep Collaborative Committee, 2005 Provides information from around the world on creep in multiple high temperature metals alloys and advanced materials **Creep and Fracture in High Temperature Components** Ahmed Shibli, Holdsworth Stuart, European Creep Collaborative Committee, 2008 *Engineering Physics of High-Temperature Materials* Nirmal K. Sinha, Shoma Sinha, 2022-02-15

ENGINEERING PHYSICS OF HIGH TEMPERATURE MATERIALS Discover a comprehensive exploration of high temperature materials written by leading materials scientists In *Engineering Physics of High Temperature Materials* Metals Ice Rocks and Ceramics distinguished researchers and authors Nirmal K Sinha and Shoma Sinha deliver a rigorous and wide ranging discussion of the behavior of different materials at high temperatures The book discusses a variety of physical phenomena from plate tectonics and polar sea ice to ice age and intraglacial depression and the postglacial rebound of Earth's crust stress relaxation at high temperatures and microstructure and crack enhanced Elasto Delayed Elastic Viscous EDEV models At a very high level *Engineering Physics of High Temperature Materials* EPHTM takes a multidisciplinary view of the behavior of materials at temperatures close to their melting point The volume particularly focuses on a powerful model called the Elasto Delayed Elastic Viscous EDEV model that can be used to study a variety of inorganic materials ranging from snow and ice metals including complex gas turbine engine materials as well as natural rocks and earth formations tectonic processes It demonstrates how knowledge gained in one field of study can have a strong impact on other fields *Engineering Physics of High Temperature Materials* will be of interest to a broad range of specialists including earth scientists volcanologists cryospheric and interdisciplinary climate scientists and solid earth geophysicists The book demonstrates that apparently dissimilar polycrystalline materials including metals alloys ice rocks ceramics and glassy materials all behave in a surprisingly similar way at high temperatures This similarity makes the information contained in the book valuable to all manner of physical scientists Readers will also benefit from the inclusion of A thorough introduction to the importance of a unified model of high temperature material behavior including high temperature deformation and the strength of materials An exploration of the nature of crystalline substances for engineering applications including basic materials classification solid state materials and general physical principles Discussions of forensic physical materialogy and test techniques and test systems Examinations of creep fundamentals including rheology and rheological terminology and phenomenological creep failure models Perfect for materials scientists metallurgists and glaciologists *Engineering Physics of High Temperature Materials* Metals Ice Rocks and Ceramics will also earn a place in the libraries of specialists in the nuclear chemical and aerospace industries with an interest in the physics and engineering of high temperature materials Creep-Resistant Steels Fujio Abe, Torsten-Ulf Kern, R Viswanathan, 2008-03-14 Creep resistant steels are widely used in the petroleum chemical and power generation industries Creep resistant steels must be reliable over very long periods of time at high

temperatures and in severe environments Understanding and improving long term creep strength is essential for safe operation of plant and equipment This book provides an authoritative summary of key research in this important area The first part of the book describes the specifications and manufacture of creep resistant steels Part two covers the behaviour of creep resistant steels and methods for strengthening them The final group of chapters analyses applications in such areas as turbines and nuclear reactors With its distinguished editors and international team of contributors Creep resistant steels is a valuable reference for the power generation petrochemical and other industries which use high strength steels at elevated temperatures Describes the specifications and manufacture of creep resistant steels Strengthening methods are discussed in detail Different applications are analysed including turbines and nuclear reactors High Temperature Component Life Assessment G.A. Webster,R.A. Ainsworth,2013-03-09 The aim of this book is to investigate and explain the rapid advances in the characterization of high temperature crack growth behaviour which have been made in recent years with reference to industrial applications Complicated mathematics has been minimized with the emphasis placed instead on finding solutions using simplified procedures without the need for complex numerical analysis **Coal Power Plant Materials and Life Assessment** A. Shibli,2014-07-24 Due to their continuing role in electricity generation it is important that coal power plants operate as efficiently and cleanly as possible Coal Power Plant Materials and Life Assessment reviews the materials used in coal plants and how they can be assessed and managed to optimize plant operation Part I considers the structural alloys used in coal plants Part II then reviews performance modelling and life assessment techniques explains the inspection and life management approaches that can be adopted to optimize long term plant operation and considers the technical and economic issues involved in meeting variable energy demands Summarizes key research on coal fired power plant materials their behavior under operational loads and approaches to life assessment and defect management Details the range of structural alloys used in coal power plants and the life assessment techniques applicable to defect free components under operational loads Reviews the life assessment techniques applicable to components containing defects and the approaches that can be adopted to optimize plant operation and new plant and component design Proceedings: Creep & Fracture in High Temperature Components I. A. Shibli,S. R. Holdsworth,2009 A compendium of European and worldwide research investigating creep fatigue and failure behaviors in metals under high temperature and other service stresses It helps set the standards for coordinating creep data and for maintaining defect free quality in high temperature metals and metal based weldments **Power Plant Life Management and Performance Improvement** John E Oakey,2011-09-28 Coal and gas based power plants currently supply the largest proportion of the world s power generation capacity and are required to operate to increasingly stringent environmental standards Higher temperature combustion is therefore being adopted to improve plant efficiency and to maintain net power output given the energy penalty that integration of advanced emissions control systems cause However such operating regimes also serve to intensify degradation mechanisms within power plant

systems potentially affecting their reliability and lifespan Power plant life management and performance improvement critically reviews the fundamental degradation mechanisms that affect conventional power plant systems and components as well as examining the operation and maintenance approaches and advanced plant rejuvenation and retrofit options that the industry are applying to ensure overall plant performance improvement and life management Part one initially reviews plant operation issues including fuel flexibility condition monitoring and performance assessment Parts two three and four focus on coal boiler plant gas turbine plant and steam boiler and turbine plant respectively reviewing environmental degradation mechanisms affecting plant components and their mitigation via advances in materials selection and life management approaches such as repair refurbishment and upgrade Finally part five reviews issues relevant to the performance management and improvement of advanced heat exchangers and power plant welds With its distinguished editor and international team of contributors Power plant life management and performance improvement is an essential reference for power plant operators industrial engineers and metallurgists and researchers interested in this important field Provides an overview of the improvements to plant efficiency in coal and gas based power plants Critically reviews the fundamental degradation mechanisms that affect conventional power plant systems and components noting mitigation routes alongside monitoring and assessment methods Addresses plant operation issues including fuel flexibility condition monitoring and performance assessment

Creep Tomasz Tański, Marek Sroka, Adam Zieliński, 2018-01-10 This book contains 12 chapters with original and innovative research studies in the issues related to the broadly defined creep effect which concerns not only the area of construction materials but also natural phenomena The emphasis on the discussion of a new trend of experimental creep testing which binds the classic creep methods to seek the correlation of parameters obtained in tests deserves particular attention This book aims to provide the readers including but not limited to students and doctoral students and also the research personnel and engineers involved in the operation of equipment and structural components as well as specialists in high temperature creep resisting materials with a comprehensive review of new trends in the field of creep exposed materials and their research methodology The chapters of this book were developed by respected and well known researchers from different countries

Materials Challenges and Testing for Supply of Energy and Resources Thomas Böllinghaus, Jürgen Lexow, Teruo Kishi, Masaki Kitagawa, 2012-01-10 One major goal of the World Materials Research Institute Forum WMRIF is to promote young scientists in the field of materials science and engineering To enhance the international knowledge exchange between young postdoctoral scientists all over the world WMRIF meanwhile regularly organizes joint workshops among the member institutes These workshops also represent an increasingly appreciated platform to get known to each other and to build co operations For such workshops various topics are selected pointing to future perspectives and challenges in the field of Materials Science and Engineering This time the presentations of the workshop focused on the four subjects Challenges in conclusive realistic and system oriented materials testing Materials

challenges for water supply Materials challenges in the extraction and recovery of scarce elements and minerals Materials challenges for nuclear fission and fusion This book comprises the peer reviewed contributions during the 2nd International Workshop for Young Materials Scientists at BAM Federal Institute for Materials Research and Testing Berlin Germany It also provides a very informative overview of recent results for all materials scientists Advances in Manufacturing and Mechanical Engineering Wahyu Kuntjoro,Aidah Jumahat,Farrahshaida Mohd Salleh,Rosnadiyah Bahsan,2013-09-03 Selected peer reviewed papers from the International Conference on Advances in Mechanical Engineering 2013 ICAME 2013 August 28 29 2013 Malacca Malaysia **High Temperature Miniature Specimen Test Methods** Wei Sun,Zhufeng Yue,Guoyan Zhou,Zhixun Wen,Ming Li,2023-10-28 High Temperature Miniature Specimen Test Methods for the first time in book format focuses on a comprehensive and thorough introduction to a range of high temperature miniaturized test methods at elevated temperatures which are used to obtain bulk creep or fatigue properties from a small volume of material Complicated mathematics and modelling are not involved It is intended to be of use to a wide range of audience of engineers e g designers manufacturers metallurgists stress analysts researchers e g materials scientists and students undergraduate and postgraduate in the field of high temperature material and structural integrity assessment Specific novel features of the book include 1 theoretical basis of each test method 2 data interpretation method of each test method and 3 specific application of each test method Provides the theoretical basis of each test method Includes the data interpretation method of each test method Presents specific applications and the limitations of each test method along with opportunities for future developments *Advances in Materials Technology for Fossil Power Plants* D. Gandy and J. Shingledecker,2014-01-01 Conference proceedings covering the latest technology developments for fossil fuel power plants including nickel based alloys for advanced ultrasupercritical power plants materials for turbines oxidation and corrosion welding and weld performance new alloys concepts and creep and general topics Fuelling the Future A. Mendez-Vilas,2012-12-01 This book contains a selection of papers presented at The Energy Materials Research Conference EMR2012 which was held in Torremolinos Málaga Spain during June 20th 22nd 2012 p ix **Developments in Pressure Equipment** IMechE (Institution of Mechanical Engineers),2005-01-14 There have been many developments in pressure equipment technology over the last 30 years culminating in the development of new standards and legislation The aim of this collection of papers is not only to document views of leading professionals in various fields of pressure equipment technology but also to look into the future and identify the next areas for development *Developments in Pressure Equipment Where to Next* brings together international authors to provide an invaluable and comprehensive insight into the latest innovations in the field Topics include Legislation and standardization Design and materials Manufacture and inspection Integrity and life assessment Towards the future **Advances in Materials Technology for Fossil Power Plants** ,2011-01-01 *Advances in Fracture Research* K. Salama,D.M.R. Taplin,P. Rama Rao,K. Ravi-Chandar,2013-10-22 Held every four years the International Congress on

Fracture is the premier international forum for the exchange of ideas between scientists and engineers involved in producing and using materials resistant to fracture and fatigue This major six volume work which forms the proceedings of the Seventh International Congress on Fracture therefore provides the most comprehensive account available of the current status of research into fracture and fatigue and the application of this knowledge to the design fabrication and operation of materials and structures As such it will be an essential reference for materials scientists and mechanical structural aeronautical and design engineers with an interest in fracture and its prevention

Proceedings of the 2014 Energy Materials

Conference The Minerals, Metals & Materials Society (TMS), 2015-04-06 This DVD contains a collection of papers presented at EnergyMaterials 2014 a conference organized jointly by The Chinese Society for Metals CSM and The Minerals Metals Materials Society TMS and held November 4 6 2014 in Xi an Shaanxi Province China With the rapid growth of the world s energy production and consumption the important role of energy materials has achieved worldwide acknowledgement Material producers and consumers constantly seek the possibility of increasing strength improving fabrication and service performance simplifying processes and reducing costs Energy Materials 2014 has provided a forum for academics researchers and engineers around the world to exchange state of the art development and information on issues related to energy materials The papers on the DVD are organized around the following topics Materials for Coal Based Systems Materials for Gas Turbine Systems Materials for Nuclear Systems Materials for Oil and Gas Materials for Pressure Vessels

Proceedings of the ASME Applied Mechanics Division ,2007 *Challenges of Power Engineering and Environment* Ke-fa Cen, Yong Chi, Jianhua Yan, 2009-03-27 This book is the proceedings of the International Conference on Power Engineering 2007 The fields of this book include power engineering and relevant environmental issues The recent technological advances in power engineering and related areas are introduced This book is valuable for researchers engineers and students majoring in power engineering

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