

FIRST INTERNATIONAL CONFERENCE  
ON  
**Microstructures**  
and  
**Mechanical Properties**  
OF  
**Aging Materials**

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# First International Conference On Microstructures And Mechanical Properties Of Aging Materials

**Michael Hoelscher**



## **First International Conference On Microstructures And Mechanical Properties Of Aging Materials:**

First International Conference on Microstructures and Mechanical Properties of Aging Materials : proceedings of a Symposium sponsored by the Minerals, Metals & Materials Society held in conjunction with ASM International during Materials Week 92 in Chicago, Illinois, November 2-5, 1992 Peter K. Liaw,1993 *First International Conference on Microstructures and Mechanical Properties of Aging Materials* Peter K. Liaw,1993-01-01 This proceeding covers all areas in degradation of microstructures and mechanical properties of structural and electronic materials resulting from service exposure

**First International Conference on Microstructures and Mechanical Properties of Aging Materials** International Conference on Microstructures and Mech,1993-01-01 Fatigue of Electronic Materials Scott A. Schroeder,Michael R. Mitchell,1994 Unlike earlier electronic circuits today s microelectronic devices demand that solder serve structural as well as electrical ends and do so at relatively high temperature for years Fatigue and failure of the solder has therefore become an issue in the industry Nine studies from a May 1993 sympos Gaseous Hydrogen Embrittlement of Materials in Energy Technologies Richard P Gangloff,Brian P Somerday,2012-01-16 Many modern energy systems are reliant on the production transportation storage and use of gaseous hydrogen The safety durability performance and economic operation of these systems is challenged by operating cycle dependent degradation by hydrogen of otherwise high performance materials This important two volume work provides a comprehensive and authoritative overview of the latest research into managing hydrogen embrittlement in energy technologies Volume 1 is divided into three parts the first of which provides an overview of the hydrogen embrittlement problem in specific technologies including petrochemical refining automotive hydrogen tanks nuclear waste disposal and power systems and H2 storage and distribution facilities Part two then examines modern methods of characterization and analysis of hydrogen damage and part three focuses on the hydrogen degradation of various alloy classes With its distinguished editors and international team of expert contributors Volume 1 of Gaseous hydrogen embrittlement of materials in energy technologies is an invaluable reference tool for engineers designers materials scientists and solid mechanicians working with safety critical components fabricated from high performance materials required to operate in severe environments based on hydrogen Impacted technologies include aerospace petrochemical refining gas transmission power generation and transportation Summarises the wealth of recent research on understanding and dealing with the safety durability performance and economic operation of using gaseous hydrogen at high pressure Reviews how hydrogen embrittlement affects particular sectors such as the petrochemicals automotive and nuclear industries Discusses how hydrogen embrittlement can be characterised and its effects on particular alloy classes

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**Materials Ageing and Component Life Extension** ,1995 [Index of Conference Proceedings](#) British Library. Document Supply Centre,1997

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*Surface Modification Technologies* ,1995

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