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Practical applications and examples of fracture control in weldments, process piping, aircraft systems, and high-temperature crack growth and thermos-mechanical fatigue are also included. For information on the print version of Volume 19, ISBN 978-0-87170-385-9, follow this link .

Fatigue and Fracture | Handbooks | ASM International

Researchers from the Boeing Company and Texas A&M University will discuss two new standard test methods for fatigue in shape memory alloys at the ASM International IMAT 2020 conference in Cleveland in September.

Standard methods under development for fatigue evaluation ...

high-strength steels heat treated to over 1400 MPa (200 ksi) yield strengths have much higher fatigue strengths than aluminum alloys with 480 MPa (70 ksi) yield strengths.

Fatigue - ASM International

Additional attention also is given to the statistical aspects of fatigue data, the planning and evaluation of fatigue tests, and the characterization of fatigue mechanisms and crack growth. --ASM International

ASM Handbook, Volume 19: Fatigue and Fracture: ASM ...

Contact fatigue is a surface-pitting-type failure commonly found in ball or roller bearings. This article discusses the mechanisms of contact fatigue found in gears, cams, valves, rails, and gear couplings. It discusses the statistical analysis of rolling contact bearing-life tests.

Contact Fatigue | Fatigue and Fracture - ASM International

It describes fatigue life behavior in terms of unnotched fatigue limits, notch effects, axial strain-life fatigue, and mean stress effects. The article analyzes the mechanisms of corrosion fatigue crack initiation and prevention of corrosion fatigue. It presents case histories of fatigue failure of various steel components.

Fatigue and Fracture - ASM International

This article discusses the fundamental variables involved in fatigue-life assessment, which describe the effects and interaction of material behavior, geometry, and stress history on the life of a component. It compares the safe-life approach with the damage-tolerance approach, which employs the stress-life method of fatigue life assessment.

Fatigue-Life Assessment - ASM International

It analyzes two types of macropitting that result from the subsurface growth of fatigue cracks, namely, subsurface-origin macropitting and surface-origin macropitting. The article describes the factors influencing contact fatigue life of hardened steel bearings and gears, including hardness, inclusions, carbides, and residual stresses.

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ASM International the Materials Information Society - ASM ...

ASM International is the world's largest association of materials-centric engineers and scientists. We are dedicated to informing, educating, and connecting the materials community to solve problems and stimulate innovation around the world.

ASM Principles Of Failure Analysis - ASM International

Fatigue Asm International high-strength steels heat treated to over 1400 MPa (200 ksi) yield strengths have much higher fatigue strengths than aluminum alloys with 480 MPa (70 ksi) yield strengths. Fatigue - ASM International July 12, 2020 Source: ASM International. Researchers from the Boeing Company and Texas A&M University will discuss

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Also includes a thorough explanation of fatigue testing and interpretation of test results. Each curve is presented independently and includes an explanation of its particular importance. The curves are titled by standard industrial designations (AISI, CDA, AA, etc.) of the metals, and a complete reference is given to the original source to ...

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ASM Handbook, Volume 19 - Fatigue and Fracture Details This book is the first reference book of its kind to put critical information on both fatigue and fracture mechanics in one convenient volume.

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ASM International, Dec 31, 1994 - Technology & Engineering - 397 pages. 0 Reviews ... Fatigue data book: light structural alloys Kathleen S. Dragolich, Nikki D. DiMatteo, ASM International Snippet view - 1995. Common terms and phrases.

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