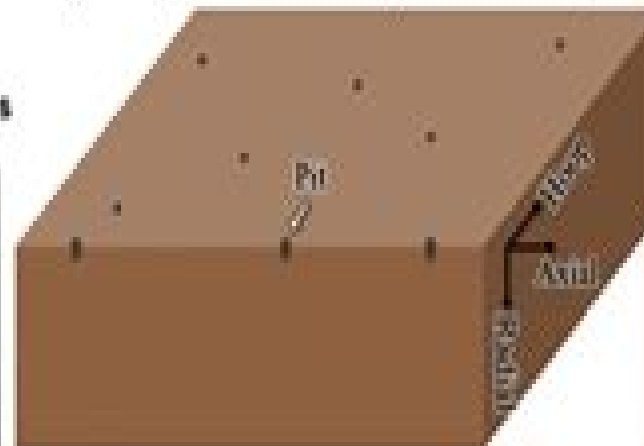


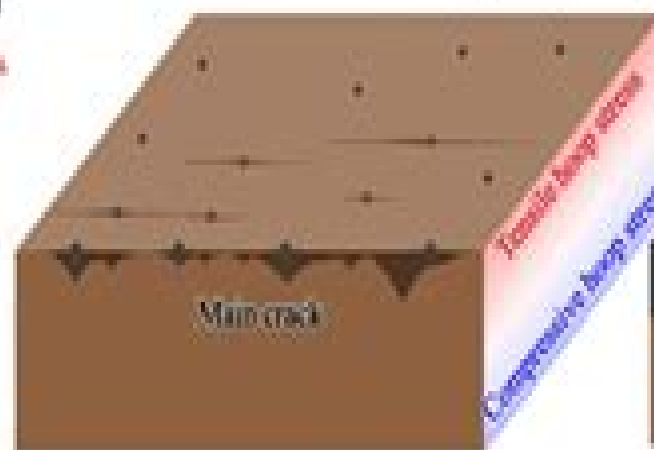
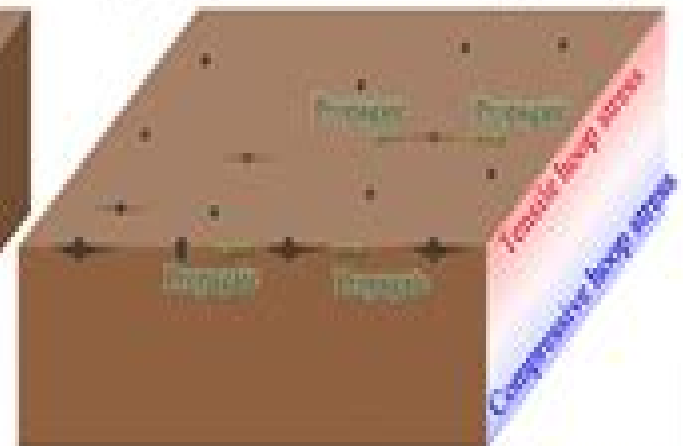
Structure of copper pipe and fixtures with stress corrosion cracking



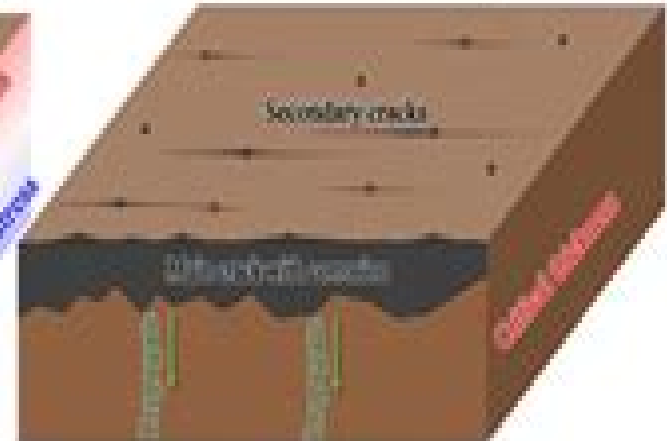
Stage 1: Dispersive corrosion pits on outer surface



Stage 2: Stress corrosion cracking from the pits



Stage 3: Coalescence of small cracks and propagation of SCC



Stage 4: Crack penetration and fracture

Stress Corrosion Cracking Embrittlement

Electrochemical Society (U.S.)



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Stress Corrosion Cracking V S Raja, Tetsuo Shoji, 2011-09-22 The problem of stress corrosion cracking SCC which causes sudden failure of metals and other materials subjected to stress in corrosive environments has a significant impact on a number of sectors including the oil and gas industries and nuclear power production Stress corrosion cracking reviews the fundamentals of the phenomenon as well as examining stress corrosion behaviour in specific materials and particular industries The book is divided into four parts Part one covers the mechanisms of SCC and hydrogen embrittlement while the focus of part two is on methods of testing for SCC in metals Chapters in part three each review the phenomenon with reference to a specific material with a variety of metals alloys and composites discussed including steels titanium alloys and polymer composites In part four the effect of SCC in various industries is examined with chapters covering subjects such as aerospace engineering nuclear reactors utilities and pipelines With its distinguished editors and international team of contributors Stress corrosion cracking is an essential reference for engineers and designers working with metals alloys and polymers and will be an invaluable tool for any industries in which metallic components are exposed to tension corrosive environments at ambient and high temperatures Examines the mechanisms of stress corrosion cracking SCC presenting recognising testing methods and materials resistant to SCC Assesses the effect of SCC on particular metals featuring steel stainless steel nickel based alloys magnesium alloys copper based alloys and welds in steels Reviews the monitoring and management of SCC and the affect of SCC in different industries such as petrochemical and aerospace

Stress Corrosion Cracking and Hydrogen Embrittlement of Iron Base Alloys, 1977 **Hydrogen Embrittlement and Stress Corrosion Cracking** Alexander Robert Troiano, Ronald Gibala, R. F. Hehemann, 1984-01-01 **STRESS CORROSION CRACKING & EMBRITTLEMENT**. Electrochemical Society (U.S.), *Hydrogen Embrittlement and Stress Corrosion Cracking* R. Gibala, R. F. Hehemann, 1986 **Stress, Corrosion Cracking and Embrittlement** Electrochemical Society. Corrosion Division, 1956 **Stress Corrosion Cracking and Embrittlement. Edited by William D. Robertson ... A Symposium Arranged by the Corrosion Division of the Electrochemical Society, Boston, October, 1954** Symposium on Stress Corrosion Cracking (BOSTON, Massachusetts), William Donald ROBERTSON, 1956 **Stress Corrosion Cracking and Hydrogen Embrittlement of High-Strength Fasteners** James K. Stanley, AEROSPACE CORP EL SEGUNDO CALIF SYSTEMS ENGINEERING OPERATIONS., 1973 Unexpected brittle failures of high strength fasteners on aerospace vehicles have been caused by stress corrosion cracking SCC and by hydrogen stress cracking HSC Despite extensive study much remains to be learned about the phenomena The poorly understood failure mechanisms are difficult to differentiate especially in the field There is a growing use of the term SCC to describe failure by both mechanisms Data are given to characterize the classes For low alloy carbon steels heat treated to yield strengths below approximately 160 ksi stress corrosion is not a problem nor is hydrogen embrittlement delayed cracking very common Above 160 ksi difficulties can occur The high strength

precipitation hardening stainless steels have varying degrees of resistance to stress corrosion cracking and hydrogen embrittlement depending upon strength level and heat treating procedures that influence the microstructure

Author Modified Abstract *Stress, Corrosion Cracking and Embrittlement* Electrochemical society (Etats-Unis). Corrosion division, 1956

Stress Corrosion Research H. Arup, R.N. Parkins, 1979-03-31

Stress corrosion cracking including hydrogen embrittlement has probably attracted more attention in the last decade than any other single facet of the many that constitute the totality of the environment sensitive behaviour of materials To some this is because the complex interactions between a number of parameters particularly metal composition and structure electrochemistry and the response of a metal to the application of stress make the subject of stress corrosion fascinating To others it is because the subject has become increasingly important in practical terms as the problem of general corrosion has been controlled and the borderline conditions between widespread attack and complete inactivity are more frequently encountered and as materials have become more efficiently used by operating at higher stress levels than hitherto Particularly in advanced engineering systems such as pressure vessels used in transportation or in the chemical process industries or in the sophisticated equipment used in some of the energy producing industries the incidence of stress corrosion failure has increased alarmingly in recent times and with consequences that are extremely costly if not worse The reasons for holding a NATO Advanced Study Institute in this field are therefore obvious but why publish the proceedings of the Institute in an age where there is arguably already a VIII superfluity of published material

Obe obvious answer is that the papers presented constitute valuable reviews of detailed developments in recent times

Mechanisms of Stress-Corrosion Cracking and Liquid-Metal Embrittlement, Particularly in High-Strength Aluminium Alloys S. P. Lynch, AERONAUTICAL RESEARCH LABS MELBOURNE (Australia), 1977

Metallographic and fractographic observations of sub critical crack growth in a precipitation hardened AlZn Mg alloy in liquid metal aqueous and water vapour air environments suggest that stress corrosion cracking and liquid metal embrittlement in this alloy involve a common mechanism Sub critical crack growth in all these environments can produce entirely dimpled fracture surfaces and in liquid metal and aqueous environments crack growth can occur extremely rapidly It is proposed that stress corrosion cracking and liquid metal embrittlement in aluminium alloys and possibly other materials can be explained on the basis that chemisorption of environmental species facilitates nucleation of dislocations at crack tips Such a process would produce sub critical crack growth with less blunting at crack tips than in inert environments and hence would explain observations that dimples on fracture surfaces after SCC are smaller and shallower than those on overload fractures The results suggest that neither dissolution nor hydrogen embrittlement processes occurred during stress corrosion cracking in aluminium alloys

Author **Stress Corrosion Cracking and Hydrogen Embrittlement in 410 Stainless Steel** Michael F. McGuire, 1972

Stress Corrosion Cracking and Hydrogen Embrittlement of Stainless Steels Kazimierz W. Bilogan, 1980

Stress Corrosion Cracking and Embrittlement Electrochemical Society. Corrosion

Division, *Stress Corrosion Cracking and Hydrogen Embrittlement of Alloy EP-823* Mohammad Hossain, 2010-05 This investigation is focused on the evaluation of stress corrosion cracking SCC localized corrosion and hydrogen embrittlement HE susceptibility of martensitic Alloy EP 823 in neutral and acidic solutions at ambient and elevated temperatures While no failures were observed in smooth specimens in the neutral solution failures were noticed in the 90 C acidic solution at constant load CL leading to a threshold stress σ_{th} of 102 ksi The presence of a notch reduced the σ_{th} value to 91 ksi in a similar environment The ductility %El and %RA time to failure TTF and true failure stress σ_f were gradually reduced in both environments with increasing temperature during SSR testing The presence of a notch however enhanced the σ_f value All polarized specimens exhibited localized attack The application of a controlled cathodic potential further reduced the ductility TTF and of showing the characteristics of more brittle failures Metallographic and fractographic evaluations revealed secondary cracks along the gage section and combination of ductile and brittle failures at the primary fracture face respectively

Mechanics Aspects of Stress Corrosion Cracking and Hydrogen Embrittlement J. R. Rice, Brown University. Division of Engineering, U.S. Atomic Energy Commission, 1974

Effect of High Dislocation Density on Stress Corrosion Cracking and Hydrogen Embrittlement of Type 304L Stainless Steel M. R. LOUTHAN (JR.), J. A. DONOVAN, D. E. RAWL (JR.),

Hydrogen Embrittlement, Grain Boundary Segregation, and Stress Corrosion Cracking of Alloy X-750 in Low- and High-temperature Water, 1997 The nature of intergranular stress corrosion cracking SCC of alloy X 750 was characterized in low and high temperature water by testing as notched and precracked fracture mechanics specimens Materials given the AH BH and HTH heat treatments were studied While all heat treatments were susceptible to rapid low temperature crack propagation LTCP below 150 C conditions AH and BH were particularly susceptible Low temperature tests under various loading conditions e g constant displacement constant load and increasing load revealed that the maximum stress intensity factors K_{ISCC} from conventional rising load tests provide conservative estimates of the critical loading conditions in highly susceptible heats regardless of the load path history For resistant heats K_{ISCC} provides a reasonable but not necessarily conservative estimate of the critical stress intensity factor for LTCP Testing of as notched specimens showed that LTCP will not initiate at a smooth surface or notch but will readily occur if a cracklike defect is present Comparison of the cracking response in water with that for hydrogen precharged specimens tested in air demonstrated that LTCP is associated with hydrogen embrittlement of grain boundaries The stress corrosion crack initiation and growth does occur in high temperature water 250 C but crack growth rates are orders of magnitude lower than LTCP rates The SCC resistance of HTH heats is far superior to that of AH heats as crack initiation times are two to three orders of magnitude greater and growth rates are one to two orders of magnitude lower

Stress Corrosion Cracking and Hydrogen Embrittlement of Iron Base Alloys, 1974* *Stress Corrosion Cracking and Embrittlement* Electrochemical Society (U.S.). Corrosion Division, 1956

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