



Atlas of Stress Corrosion and Corrosion Fatigue Curves

By A. J. McEvily

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Use this new book to find the effects of various corrosive media and processing variables on the stress corrosion cracking and corrosion fatigue characteristics of ferrous and nonferrous alloys. There are over 500 stress/cracking time curves, S/N curves, and other graphical data. An extensive introductory article explains stress corrosion cracking, corrosion fatigue, and related test methods and results. Most curves appear independently, and represent a single alloy in a given condition and environment. In cases where the curve's significance may not be obvious, explanatory text is included. The major alloy groups covered include aluminium, copper, nickel, titanium and other nonferrous alloys. Major sections are devoted to carbon, alloy, stainless and pressure vessel steels, as well as to superalloys. The effect of variables, such as grain size, cooling rate, stress intensity, and temperature are presented, along with numerous environments (e.g. calcium nitrate, dry nitrogen, mineral oil, sodium chloride, sodium hydroxide, wet air, fresh water, sea-water, etc.). Compiled from an exhaustive survey of the published literature, each curve has been carefully reviewed by A.J. McEvily, Jr. Professor, Department of Metallurgy, University of Connecticut. Dr. McEvily received the ASM Fellow citation for significant contributions to the understanding of fatigue crack initiation and growth in metals and alloys. Organized into a single, comprehensive source, this book is a valuable reference work for materials scientists concerned with stress corrosion cracking and corrosion fatigue.

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