

Download Fatigue Assessment Of Welded Joints By Local Approaches

OTH 354 STRESS CONCENTRATION FACTORS FOR SIMPLE TUBULAR JOINTS Assessment of Existing and Development of New Parametric Formulae Prepared by Lloyd's Register of Shipping In materials science, fatigue is the weakening of a material caused by repeatedly applied loads. It is the progressive and localized structural damage that occurs when a material is subjected to cyclic loading. As one kind of key anti-fatigue manufacture approaches with simplicity and effectiveness, the hole cold expansion technology satisfies the increasing needs for light weight and durability of aircraft structures. This paper addresses the problem of high cycle fatigue resistance associated to notches and the role of short crack propagation in the fatigue notch sensitivity quantified by the notch factor k_f . - Fatigue Assessment Of Welded Joints By Local Approaches