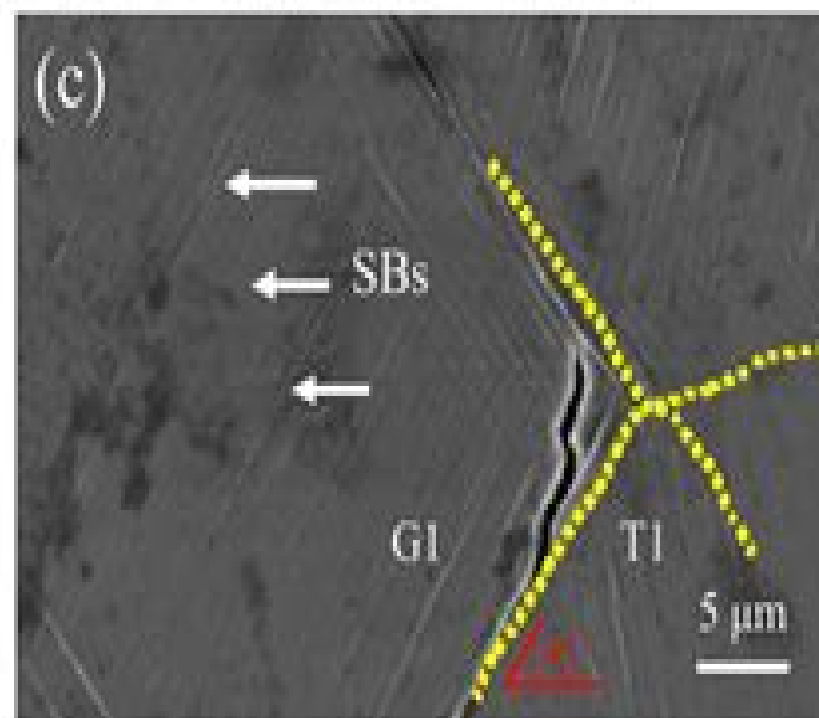
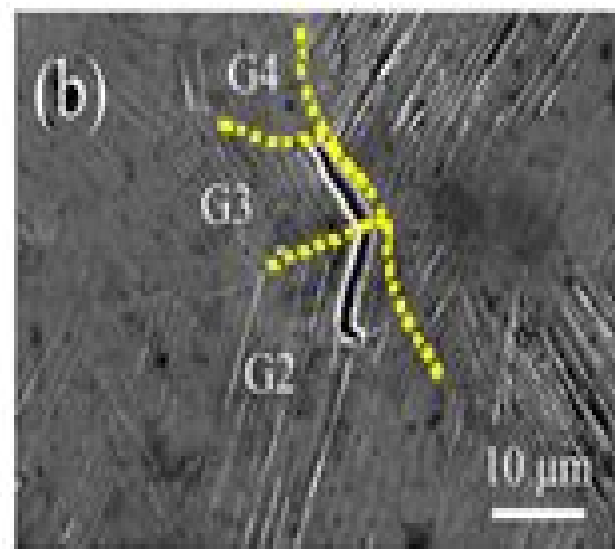
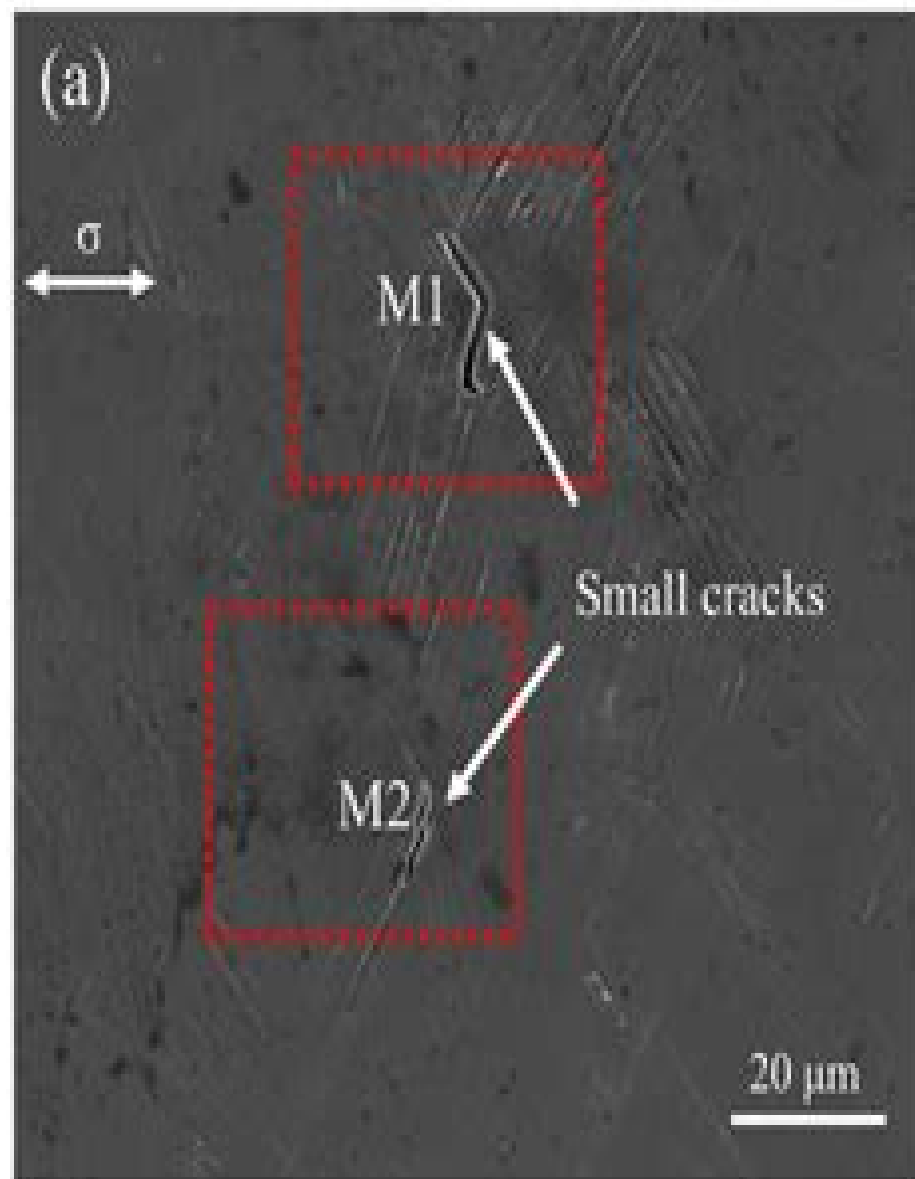




Small Fatigue Cracks

**Alten F Grandt (Jr), PURDUE UNIV
LAFAYETTE IN SCHOOL OF
AERONAUTICS AND ASTRONAUTICS.**

Small Fatigue Cracks:

Small Fatigue Cracks K.S. Ravichandran, Y. Murakami, R. O. Ritchie, 1999-09-30 This book contains the fully peer reviewed papers presented at the Third Engineering Foundation Conference on Small Fatigue Cracks held under the chairmanship of K S Ravichandran and Y Murakami during December 6-11 1998 at the Turtle Bay Hilton Oahu Hawaii This book presents a state of the art description of the mechanics mechanisms and applications of small fatigue cracks by most of the world's leading experts in this field Topics ranging from the mechanisms of crack initiation small crack behavior in metallic intermetallic ceramic and composite materials experimental measurement mechanistic and theoretical models to the role of small cracks in fretting fatigue and the application of small crack results to the aging aircraft and high cycle fatigue problems are covered

Small-crack Test Methods James M. Larsen, 1992 Reviews the most recent methods for testing small cracks in a variety of materials providing detailed quantitative information on necessary procedures for data acquisition Emphasizes the characterization of small three dimensional fatigue cracks initiated either naturally or artificially

Initiation, Growth, and Coalescence of Small Fatigue Cracks Alten F Grandt (Jr), PURDUE UNIV LAFAYETTE IN SCHOOL OF AERONAUTICS AND ASTRONAUTICS., 1985 The objective of this effort was to determine the manner in which small fatigue cracks initiate at notches extended by cyclic loading interact with adjacent flaws and coalesce into a single dominant crack which controls final fracture The desired product was a predictive scheme capable of analyzing the early stages of fatigue crack growth which are characterized by the growth and link up of small cracks Research toward this goal was directed at the following tasks 1 Crack Growth Predictive Algorithm A computer program was developed to predict the growth and coalescence of multiple cracks located at notches 2 Crack Interaction Analysis Stress intensity factors solutions were computed for multiple cracks located at an open hole These solutions were required for the multiple crack growth algorithm 3 Crack Coalescence Experiments Fatigue tests were conducted with multiply cracked specimens to provide a data base to evaluate the predictive model The model was verified with large crack results directed toward coalescence aspects of the problem as well as small crack experiments which focused on the initial stages of fatigue crack growth and 4 Characterization of Small Cracks This phase of the effort was directed toward the growth and coalescence of physically small cracks which were expected to behave differently than large cracks

The Growth of Naturally-generated Small Fatigue Cracks in a Nickel-base Single-crystal Superalloy Scott Andrew Yandt, Carleton University. Dissertation. Engineering, Aerospace, 2010

The Growth of Small Corrosion Fatigue Cracks in Alloy 2024 Robert S. Piascik, 1993

The Effects of Slip Character and Crack Closure on the Growth of Small Fatigue Cracks in Titanium-aluminum Alloys James M. Larsen, 1990 An investigation was performed to study the effects of slip character and crack closure on the propagation of small fatigue cracks in titanium aluminum alloys The materials examined were solution treated Ti 4Al and Ti 8Al as well as aged Ti 8Al The propagation of naturally initiated surface cracks of depths as small as 25

micrometers was compared with the behavior of large through thickness cracks. An extensometer was used to monitor crack closure throughout the large crack tests and the closure behavior of the small cracks was measured using a computerized laser interferometric displacement gage having a displacement resolution of 0.01 micrometer. The measurements of crack closure were used to compute an effective stress intensity factor range. In all three alloys and for all test conditions which included a range of stress levels and stress ratios, small cracks propagated faster than large cracks subjected to an equivalent ΔK and the small cracks propagated under conditions that were significantly below the large crack threshold ΔK_{th} . Although the character and distribution of slip in Ti-Al alloys may have a dramatic influence on fatigue crack initiation and on the propagation of large cracks, this effect was minimal for small cracks.

A Study on the Influence of Microstructure on Small Fatigue Cracks Gustavo Marcelo Castelluccio, 2012. In spite of its significance in industrial applications, the prediction of the influence of microstructure on the early stages of crack formation and growth in engineering alloys remains underdeveloped. The formation and early growth of fatigue cracks in the high cycle fatigue regime lasts for much of the fatigue life and it is strongly influenced by microstructural features such as grain size, twins and morphological and crystallographic texture. However, most fatigue models do not predict the influence of the microstructure on early stages of crack formation or they employ parameters that should be calibrated with experimental data from specimens with microstructures of interest. These post facto strategies are adequate to characterize materials but they are not fully appropriate to aid in the design of fatigue resistant engineering alloys. This thesis considers finite element computational models that explicitly render the microstructure of selected FCC metallic systems and introduces a fatigue methodology that estimates transgranular and intergranular fatigue growth for microstructurally small cracks. The driving forces for both failure modes are assessed by means of fatigue indicators which are used along with life correlations to estimate the fatigue life. Furthermore, cracks with meandering paths are modeled by considering crack growth on a grain by grain basis with a damage model embedded analytically to account for stress and strain redistribution as the cracks extend. The methodology is implemented using a crystal plasticity constitutive model calibrated for studying the effect of microstructure on early fatigue life of a powder processed Ni-base RR1000 superalloy at elevated temperature under high cycle fatigue conditions. This alloy is employed for aircraft turbine engine disks which undergo a thermomechanical production process to produce a controlled bimodal grain size distribution. The prediction of the fatigue life for this complex microstructure presents particular challenges that are discussed and addressed. The conclusions of this work describe the mechanistic of microstructural small crack. In particular, the fatigue crack growth driving force has been characterized as it evolves within grains and crosses to other grains. Furthermore, the computational models serve as a tool to assess the effects of microstructural features on early stages of fatigue crack formation and growth such as distributions of grain size and twins.

FAA/NASA International Symposium on Advanced Structural Integrity Methods for Airframe Durability and Damage Tolerance Charles E. Harris, 1994

On the Initiation and Growth of Small Fatigue Cracks in Gamma-based Titanium Aluminides Jamie Joseph Kruzic, 1998

A Study of Fatigue Cracks in Car Axles Alfred Copeland Callen, Carl Herbert Casberg, Cloyde Moffett Smith, Harold Eaton Babbitt, Herbert Fisher Moore, Harry Edward Schlenz, Stuart Wellington Lyon, William H. Spencer, Norville James Alleman, 1929

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