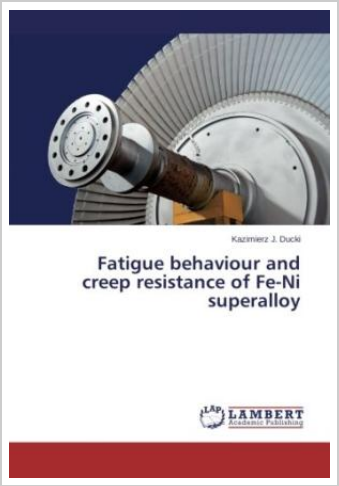

Fatigue behaviour and creep resistance of Fe-Ni superalloy

By Kazimierz J. Ducki

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Creep Rate. CTE. Resistance to Environment Degradation. Maximum Creep-Rupture Life. Maximum Thermomechanical.Â Creep-Fatigue Interaction Experiments. The George W. Woodruff School of Mechanical Engineering. School of Materials Science and Engineering. Experimentally establish the creep-fatigue interactions in a single-crystal Ni-base superalloy that is being targeted for use in industrial gas turbines (CMSX-8). â€¢ Characterize creep-fatigue interactions on CMSX-8. âž¢ Creep-fatigue âž¢ Thermomechanical fatigue âž¢ Creep (either tension or compression) followed by fatigue âž¢ Fatigue followed by creep. â€¢ Characterize the influence of aging on microstructure and creep-fatigue interactions. TMF life: In-Phase (R=0 R.Z. Wang et al., Creep-fatigue behaviors and life assessments in two nickel-based superalloys. J. Press. Vessel.Â Alsmadi Z., Alomari A.S., Kumar N., Murty K.L. (2020) High Temperature Low-Cycle Fatigue and Creep-Fatigue Behavior of Fe-25Ni-20Cr Austenitic Stainless Steel. In: Silberstein M., Amirkhizi A., Shuman X., Beese A., Berke R., Pataky G. (eds) Challenges in Mechanics of Time Dependent Materials, Fracture, Fatigue, Failure and Damage Evolution, Volume 2. Conference Proceedings of the Society for Experimental Mechanics Series. A superalloy, or high-performance alloy, is an alloy with the ability to operate at a high fraction of its melting point. Several key characteristics of a superalloy are excellent mechanical strength, resistance to thermal creep deformation, good surface stability, and resistance to corrosion or oxidation. The crystal structure is typically face-centered cubic (FCC) austenitic. Examples of such alloys are Hastelloy, Inconel, Waspaloy, Rene alloys, Incoloy, MP98T, TMS alloys, and CMSX single crystal The Fe-, Ni- and Co-based superalloys under investigation, namely Superfer 800H, Superco 605 and Superni 75, were procured from Mishra Dhatu Nigham Ltd. (MIDHANI), Hyderabad (India). The alloys were in the rolled sheet form with varying thicknesses (1.4-4.0 mm). For convenience, these alloys are designated as A, B and C, respectively, and their chemical compositions are reported in Table 1.Â 3a and Table 4, corresponding to different points on the scale surface, indicates the presence of Fe, Ni and Cr in the scale. Ceric oxide is randomly distributed at some points in the scale. In area 2, where mainly CeO2 is present, Ni is absent but Fe and Cr are present though in smaller amounts. In case of alloy B, the SEM micrograph in Fig. Induced hot corrosion of fe- and ni-based superalloys. Harpreet Singh. 1.Â For instance, the steam temperature of boilers is limited by corro-sion and creep resistance of boiler components, which affects the thermal efficiency of the boilers. Consequently, the thermal efficiency is reduced and hence the rate of electricity production is reduced (Uusitalo et al., [9]). According to a survey [10] con-ducted over a period of 12 years, encompassing 413 investigations, overheating was listed as the. cause of 201 failures or 48.7% of those investi-gated. Fatigue and corrosion fatigue were listed as the next most common causes of failure ac-counting for a total of 89 failur