

In this issue

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When do small fatigue cracks propagate and when are they arrested?

<https://doi.org/10.1515/correv-2019-0023>

Corros Rev 2019; 37(5): 397–418

Original article: Lifetimes of aircrafts, rockets, trains, all kinds of automobile transportation, bridges, offshore structures, and even medical devices depend on the fatigue response of material, loading conditions, and environment so that the relevant mechanisms have been studied and modeled.

Keywords: environmental-assisted fatigue; life-time estimations; microstructural dependence of FCG; small to long crack transition; VHCF ultrasonic fatigue.

