CORRELATION BETWEEN CRACK GROWTH RATE AND MICROSCOPIC FRACTURE SURFACE OF Ti-6Al-4V

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A comparison between crack growth rate (dA/dN) vs. effective stress intensity range factor (\(K_{eff}\)) curve behavior and microscopic fracture surface of Ti-6Al-4V experimental specimens has been presented. Two transition points observed in crack growth rate curve were indicated that the Paris-Erdogan regime consist of three different regimes. These regimes in somehow is correlated by microstructure of interpretation feature of Ti-6Al-4V specimens.

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