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ABSTRACT

PRESENTATION

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COMPLEMENTARY USE OF VIBROTHERMOGRAPHY AND FLYING SPOT THERMOGRAPHY TO CHARACTERIZE FATIGUE CRACKS IN METALLIC SAMPLES

In this study, vibrothermography and the flying spot technique are applied to assess through-thickness cracks induced by fatigue testing. Vibrothermography is utilized for anomaly detection on the specimen, employing diverse vibration modes like flexion or torsion to excite anomalies under varied conditions and identify different kind of anomalies. Subsequently, the flying spot technique is employed for precise characterization of these anomalies; scanning is conducted in proximity to the anomalies to acquire specific characteristics such as length and width.