

FATIGUE CRACK PROPAGATION IN PLAIN CONCRETE.

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Abstract: The work in this investigation is aimed at establishing whether the empirical Paris' Law for crack propagation in metals and rocks given by da/dN equals $C (\Delta K)^m$ is valid for use in crack propagation in plain concrete. Compliance and fatigue testing was carried out on single edged notched beam (SENB) specimens in 3 point bending (Mode I), and results indicate that Paris' Law may be applicable for crack growth in plain concrete, with m being a constant and C dependent on the stress cycle ratio R .