

A precise computation of stress intensity factor on the front of a convex planar crack

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SUMMARY

In this paper, we consider a general integral expression for mode I stress intensity factor along the fronts of convex planar cracks. For this integral approximation, we develop a simple numerical quadrature formula on every convex set Ω which allows a precise estimation of the error. This permits the use of extrapolation techniques for the accurate computation of the integral. Copyright © 2002 John Wiley & Sons, Ltd.

KEY WORDS: mode I stress intensity factor; singular integrals; extrapolation methods; convex planar cracks

1. INTRODUCTION

In many engineering applications, like pressure vessels and pipework operating at high pressures, one is interested in a detailed knowledge of internal or external fatigue cracks that may initiate and propagate. An analytic approximation of stress intensity factor for elliptic surface cracks was first given in Reference [1]. A more general expression for mode I stress intensity factor for embedded crack in an infinite elastic isotropic solid under normal traction distribution has been introduced as integral approximation by Ore and Burns in Reference [2].

More precisely, let Ω be an open, bounded convex subset of the plane and

$$f(Q) = \int_{\partial\Omega} \frac{ds}{|Q - P(s)|^2}, \quad Q \in \Omega \quad (1)$$

where s is the arc length on $\partial\Omega$.

Then, the function $K(Q')$, $Q' \in \partial\Omega$, defined by

$$K(Q') = \frac{\sqrt{2}}{\pi} \int_{\Omega} \frac{\sigma(Q)}{\sqrt{f(Q)}|Q - Q'|^2} dQ \quad (2)$$

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