

**Saraj, M.**

**An interior Griffith crack opened by a heated wedge in an infinite strip whose edges are parallel to the crack axis.** (English) [Zbl 0821.73050](#)

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Exact expressions for the stress intensity factors and the crack shape are obtained under plane strain conditions by use of the Fourier transform technique. The formulated problem is reduced to a Fredholm integral equation of the second type, whose solution is obtained by the method of approximation. Two special cases of heat distribution and known wedge shape functions are discussed.

**MSC:**

[74R99](#) Fracture and damage

[80A20](#) Heat and mass transfer, heat flow (MSC2010)

**Keywords:**

homogeneous isotropic medium; stress intensity factors; crack shape; Fourier transform; Fredholm integral equation of the second type; method of approximation