Liu, Cheng; **Lambros, John**; **Rosakis, Ares J.**

Highly transient elastodynamic crack growth in a bimaterial interface: Higher order asymptotic analysis and optical experiments. (English) Zbl 0803.73058

J. Mech. Phys. Solids 41, No. 12, 1887-1954 (1993).

The standard asymptotic technique is used for the analysis of the transient crack growth in a bimaterial interface. The near-tip transient stress field is evaluated explicitly. An experimental study of the dynamic crack growth using the optical method and high speed photography, is also described.

Reviewer: J.Golecki (Haifa)

MSC:

74R99 Fracture and damage
74S30 Other numerical methods in solid mechanics (MSC2010)
74-05 Experimental work for problems pertaining to mechanics of deformable solids

Keywords:

near-tip stress field; high speed photography

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