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Stress Intensity Factor Analysis of a Three-dimensional Interfacial Corner between Anisotropic Piezoelectric Multi-materials Under Several Boundary Conditions on the Corner Surfaces

Mitsutoshi Abe, Toru Ikeda, Masaaki Koganemaru, Noriyuki Miyazaki

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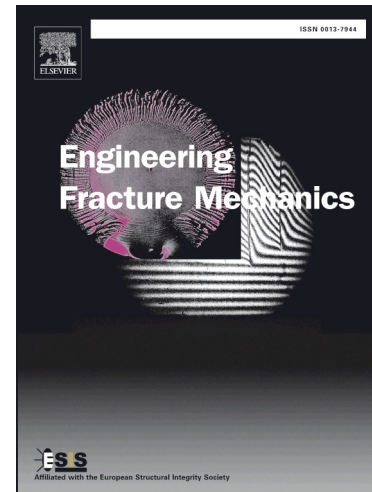
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Title

Stress Intensity Factor Analysis of a Three-dimensional Interfacial Corner between Anisotropic Piezoelectric Multi-materials Under Several Boundary Conditions on the Corner Surfaces

Authors

Mitsutoshi Abe, Toru Ikeda, Masaaki Koganemaru and Noriyuki Miyazaki

Affiliations

Department of Mechanical Engineering, Kagoshima University, 1-21-40, Korimoto, Kagoshima, , 890-0065, Japan.

Abstract

Asymptotic solutions around an interfacial corner can be obtained by a combination of the Stroh formalism and the Williams eigenfunction method. The H -integral method, which is derived from Betti's reciprocal theorem, is useful for analyzing the stress intensity factors (SIFs) of cracks and corners. By expanding these theories for a three-dimensional interfacial corner between anisotropic

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