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Computational & Multiscale Mechanics of Materials

The stress intensity factor, K , is used in fracture mechanics to predict the stress state near the tip of a crack or notch caused by a remote load or residual stresses. It is a theoretical construct usually applied to a homogeneous, linear elastic material and is useful for providing a failure criterion for brittle materials, and is a critical technique in the discipline of damage tolerance. The concept can also be applied to materials that exhibit small-scale yielding at a cra

Stress intensity factor - Wikipedia

Personal and professional life Hiroshi Tada was born in Kyushu, Japan, but lives in St. Louis, Missouri, in the USA. Tada is an affiliate professor of mechanical engineering at Washington University in St. Louis and co-author of Stress Analysis of Cracks Handbook.

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