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Stress Analysis of Cracks Handbook. Dr. Hiroshi Tada is a mechanical engineer with highly notable works in the field of fracture mechanics. He is also well known as a performer of a Japanese style of top spinning known as koma-mawashi .

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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

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