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respectively, provided the crack-tip stress field is given in terms of  $r$  and  $\theta$ . In all these cases, origin is at the crack-tip.  $x$  axis ( $\theta = 0$ ) is aligned with the crack plane and it points towards the direction of crack extension (Fig. 5.1).

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The stress intensity factor,  $K$   $\{\displaystyle K\}$ , 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

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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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