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8.3 Edge crack in a semi-infinite plate 29 ... The existing stress intensity factor handbook solutions ... Determine stress distribution (x) in the prospective crack plane using linear elastic analysis of uncracked

body (Fig. 1a), i.e. perform the stress analysis ignoring the

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Stress concentrations around notches were considered in Chapter 3 with the stress concentration factor  $K_t$  as an important parameter for characterizing the severity of the stress distribution around the notch. The crack initiation life is highly dependent on the  $K_t$ -value. The crack initiation period is followed by the fatigue crack growth period, recall Figure 2.1.

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, "The Stress Analysis of Cracks Handbook," 3rd ed., ASME Press, New York (2000). Broek, D., in "Elementary Engineering Fracture Mechanics," 4th ed., Martinus Nijhoff Publishers, Leiden, The Netherlands ( 1986 ).

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