

Simulation of the NRC Wide-Plate Tests Performed in at Oakridge Nat. Labs. Invited Talk given at Lund Institute of Technology, Lund, Orationem Meam Ståhle, P.

1989

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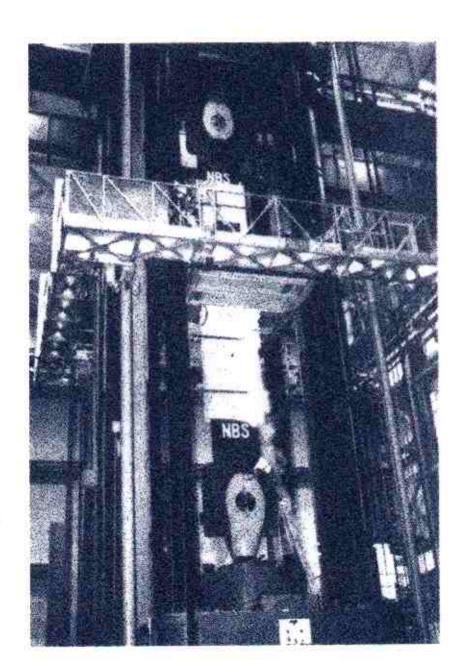
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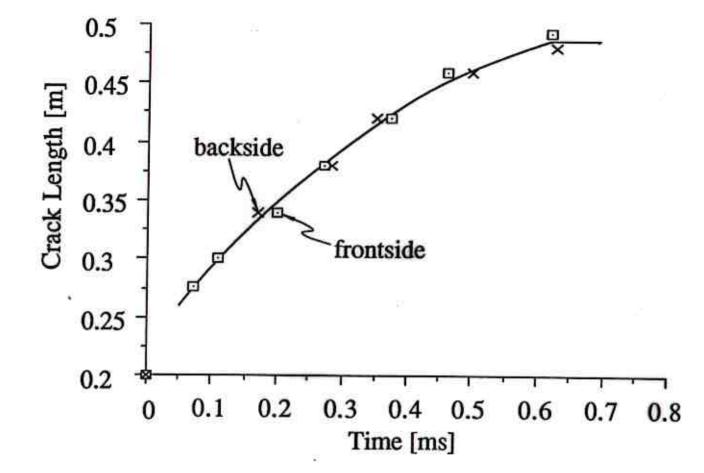
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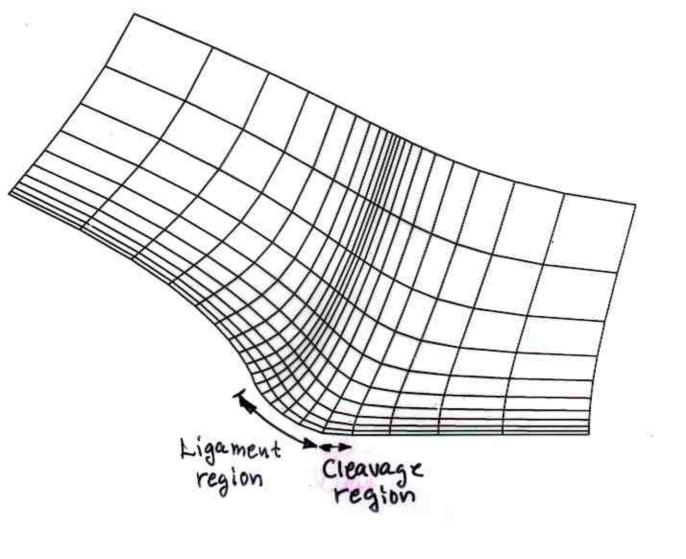
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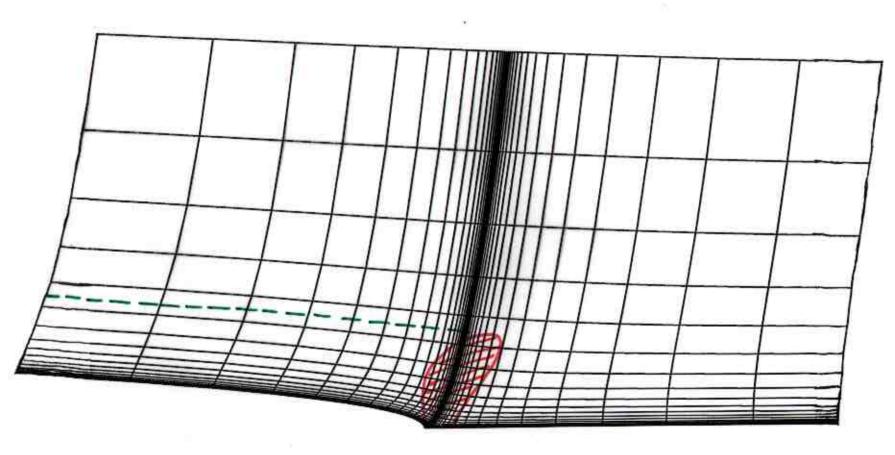
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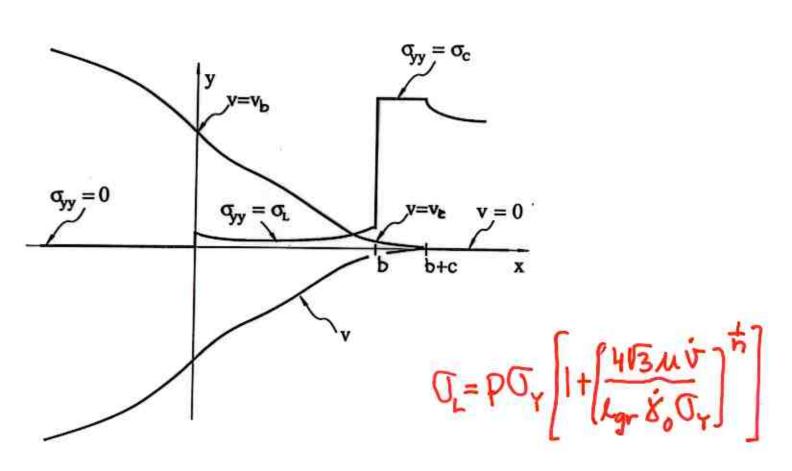
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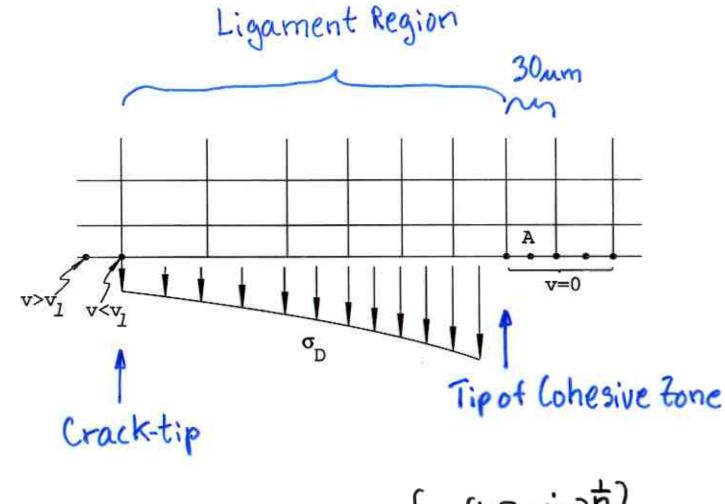






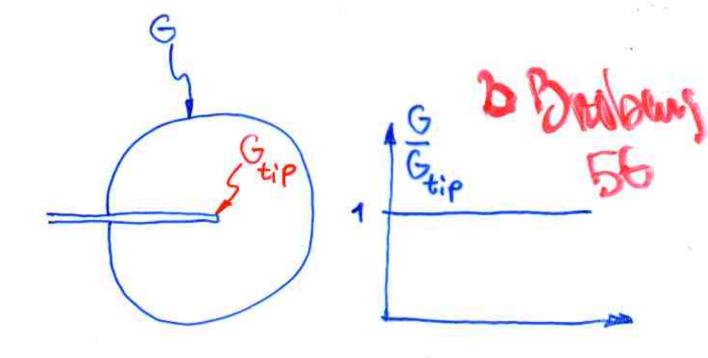






rack-tip

$$O_D = PO_0 \left\{ 1 + \left[\frac{413 \text{mi}}{4978600} \right]^{\frac{1}{12}} \right\}$$

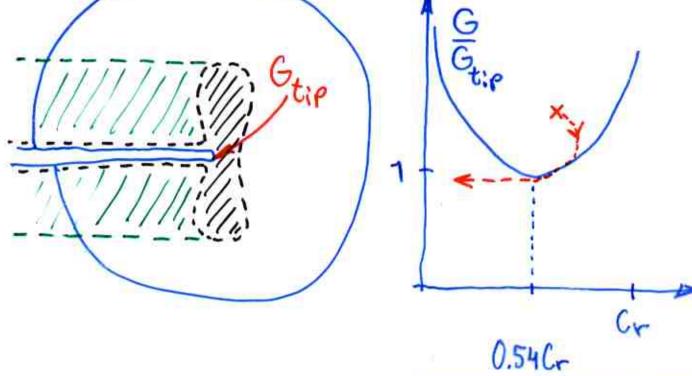


Freund & Hutchinson 1985,
$$n=1$$

$$\xi^{PL} = 8. (G-G_0)^n$$

$$G$$

$$G_{tip}$$





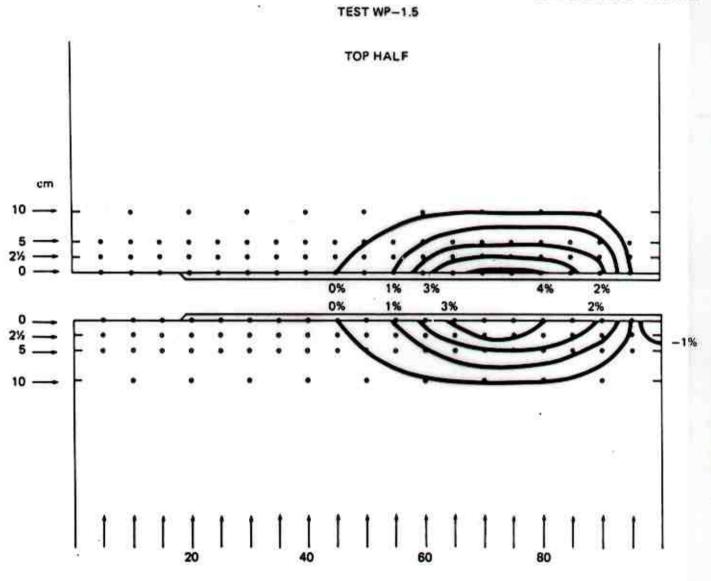
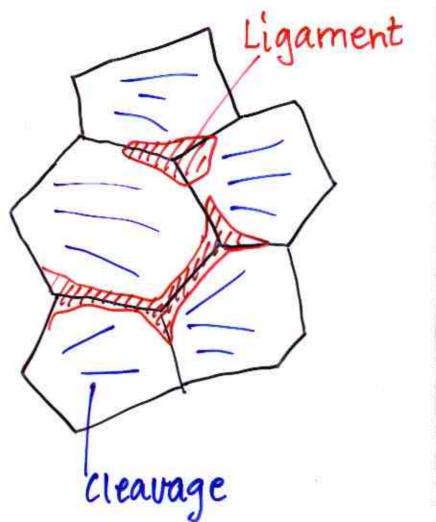
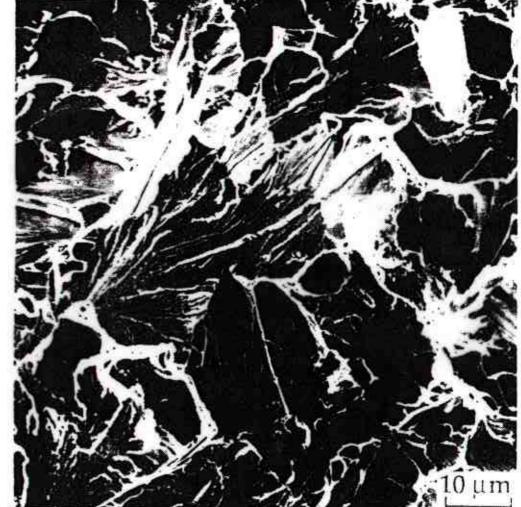
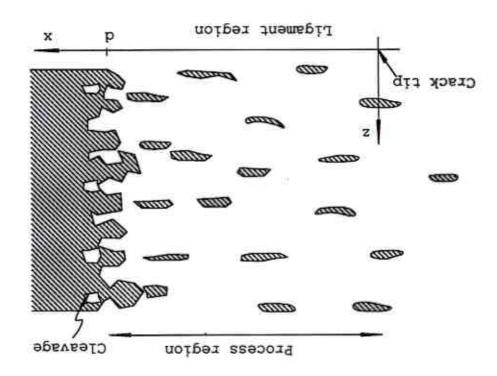


Fig. 6.60. Posttest contour map of plastic reduction in thickness: Test WP-1.5.

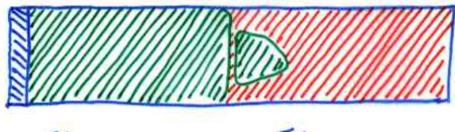
BOTTOM HALF (cm)





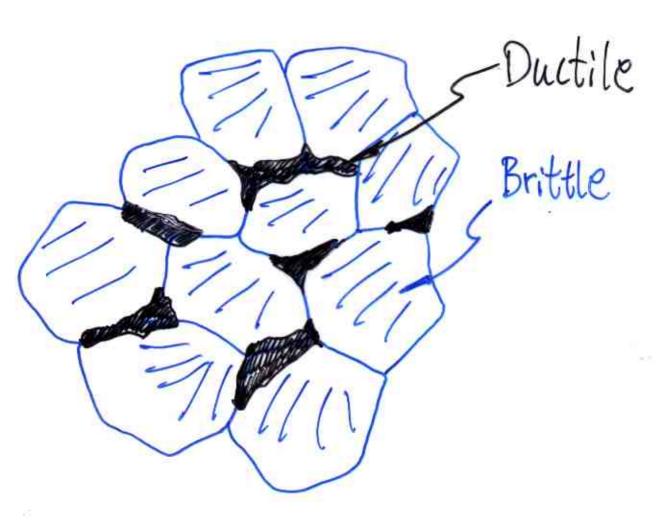


Crack Surface

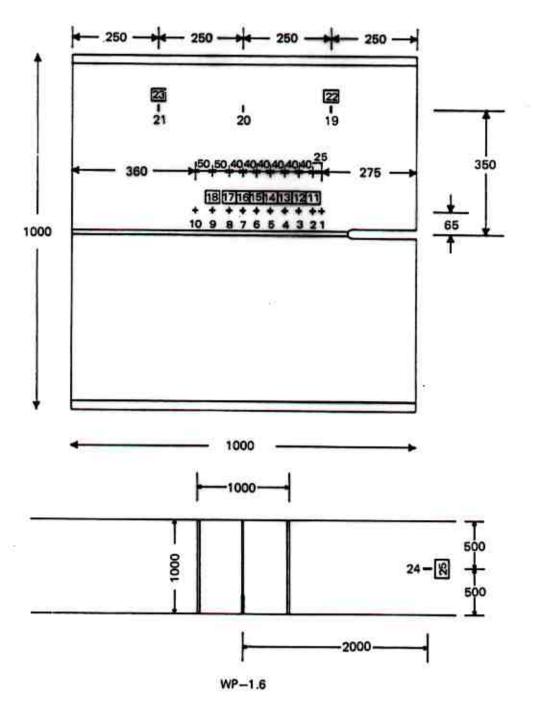


Cleavage

Fibraus



D. Alexander & I. Johansson 10-20% Ductile



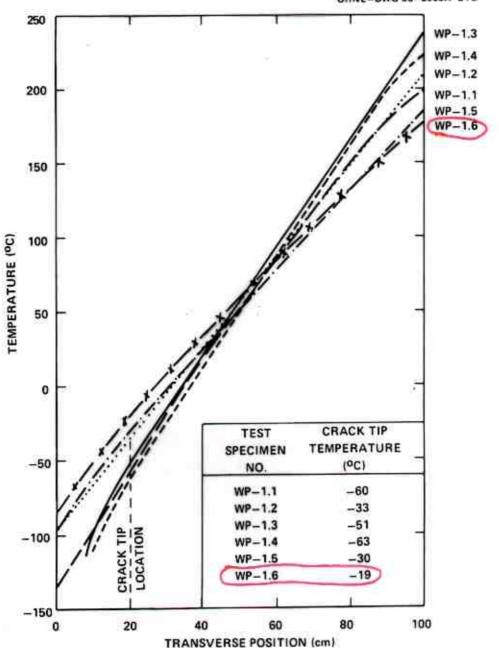


Fig. 6.1. Transverse temperature profiles at approximate time of crack initiation-arrest events: Series WP-1.

