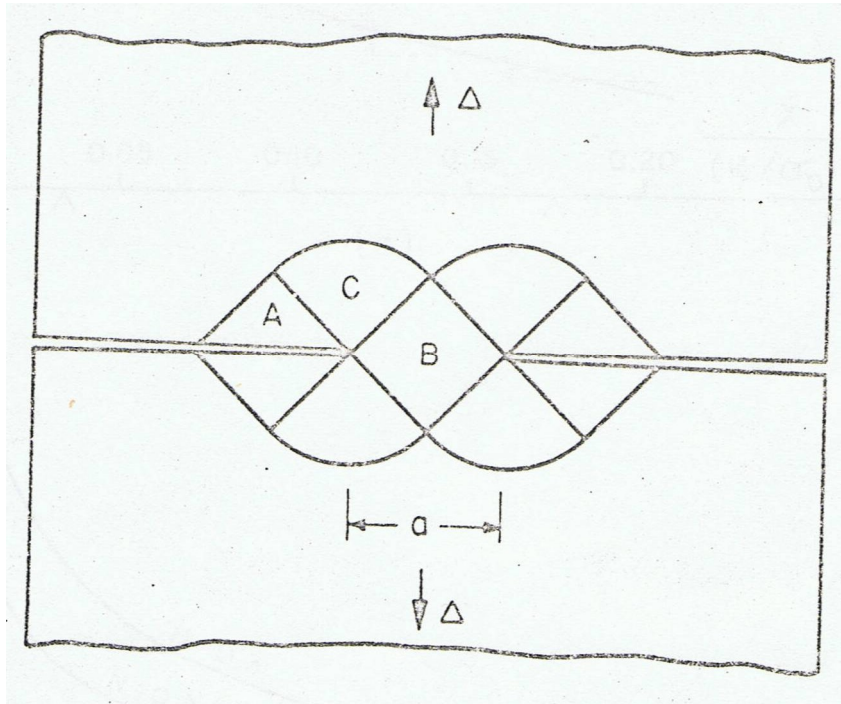


T72S01 Homework for Session 11 – Slip Line Fields

1) For a perfectly plastic material, the Hencky net for a deeply cracked double edge-notched plate undergoing general yielding in plane strain tension is,



- What is the hydrostatic stress and the x and y stresses in the region between the cracks?
- What does this imply about the yield load?
- For a real material, with hardening, and for a plate which is not too thick, what is likely to happen as plastic strains are increased further?
- Is this a high or low constraint geometry?

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