



of the plate, inducing a trailing shock,  $\mathcal{S}$ . Pressure on the plate falls quickly behind the detonation front as indicated. This produces a corresponding rarefaction behind  $\mathcal{S}$ . The shock  $\mathcal{S}$  is reflected from the bottom surface as a rarefaction,  $\mathcal{R}$ , and the interaction of  $\mathcal{R}$  with the rarefaction behind  $\mathcal{S}$  produces a tension stress field which may be strong enough to fracture the plate along

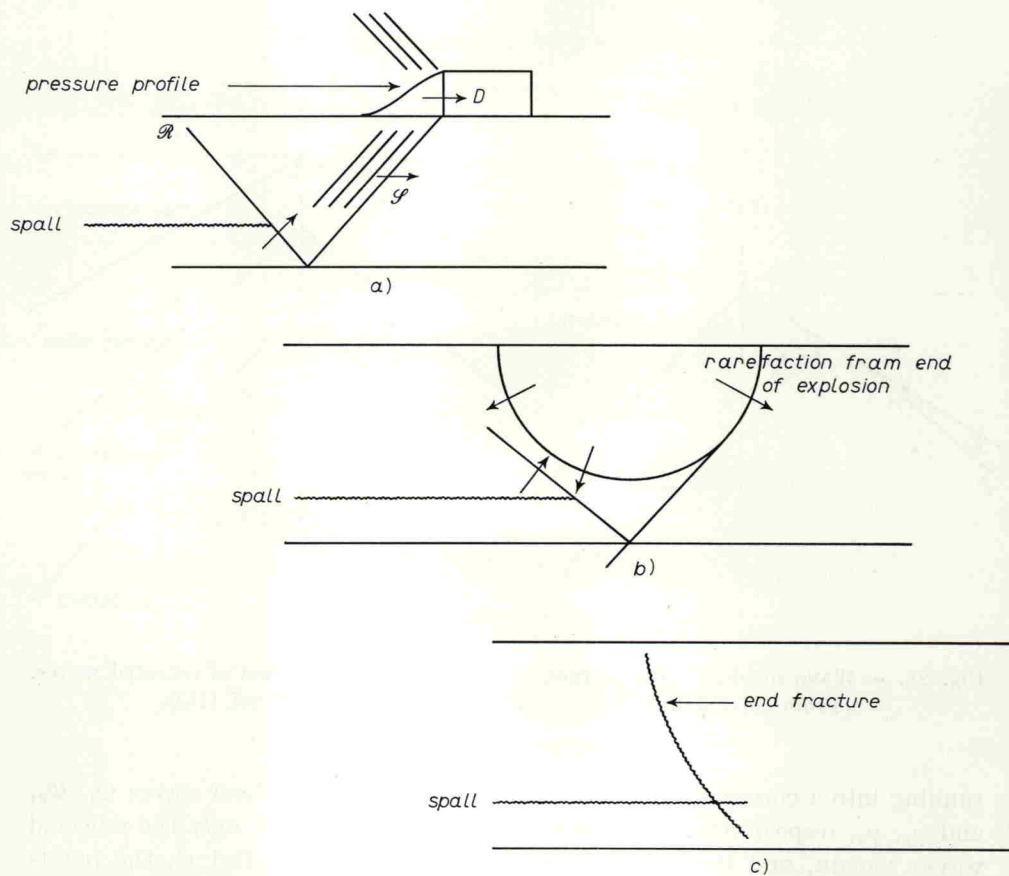


Fig. 30. - Generation of end fracture. *a)* Steady waves from detonating explosive; *b)* rarefaction generated at end of explosive intersects with bottom rarefaction; *c)* end fracture resulting from interaction.

the surface labelled «spall». When the detonation reaches the end of the explosive charge, a rarefaction is generated with a more or less circular wave front as shown in Fig. 30 *b)*. This rarefaction, interacting with  $\mathcal{R}$ , produces a stress field which results in an end fracture with orientation shown in Fig. 30 *c)*. The geometry of this interaction has been worked out [16], but no one has