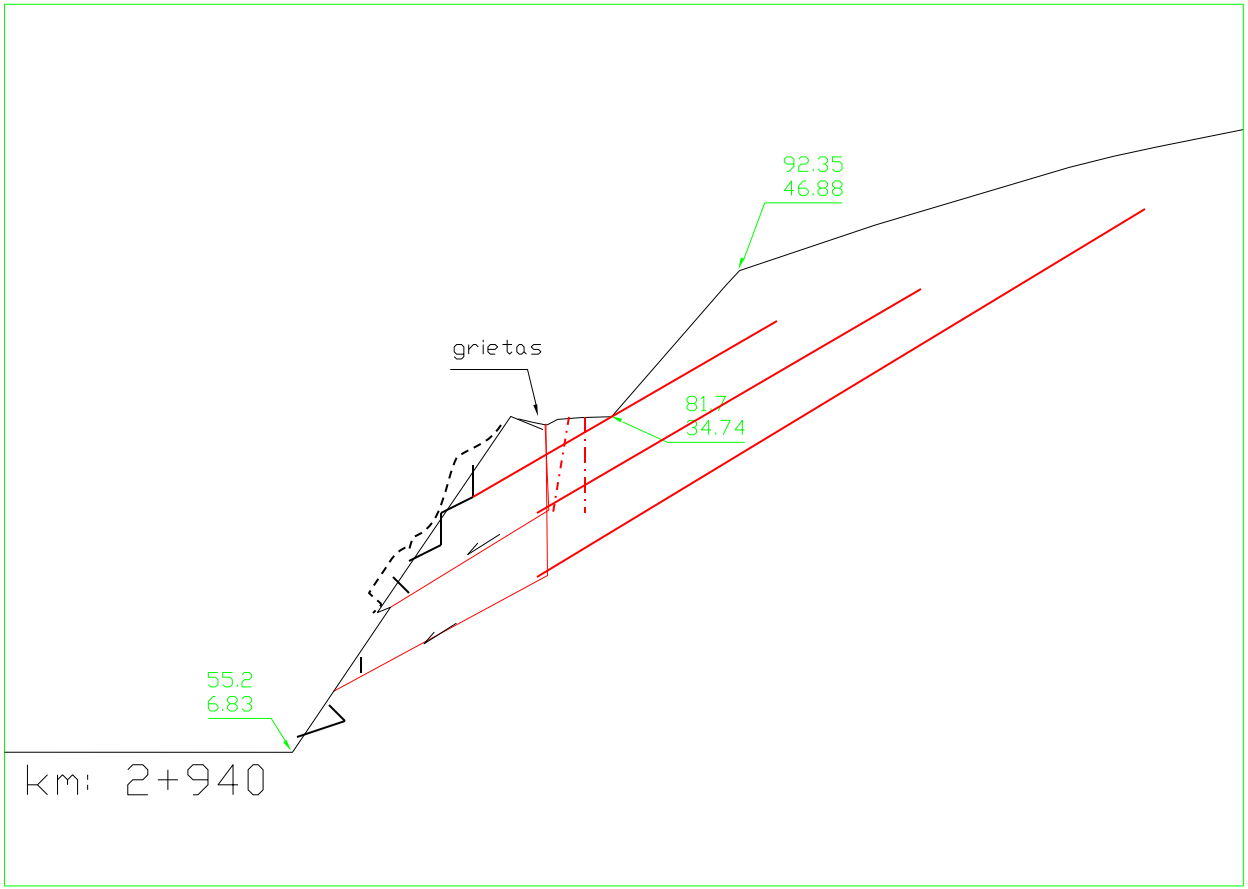
DESLIZAMIENTOS PLANOS

EJEMPLO REALES Y FORMAS DE CALCULO

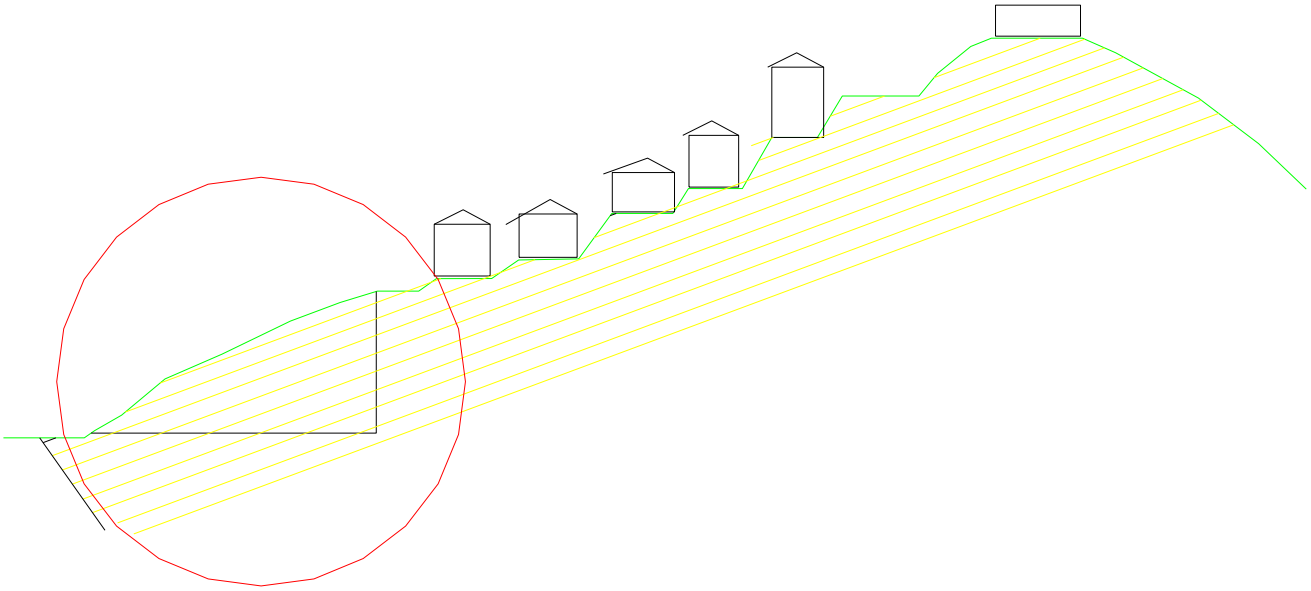
RUPTURA PLANAR

DESLIZAMIENTO PLANO DEBIDO A LA FAMILIA F2 DE FRACTURAS



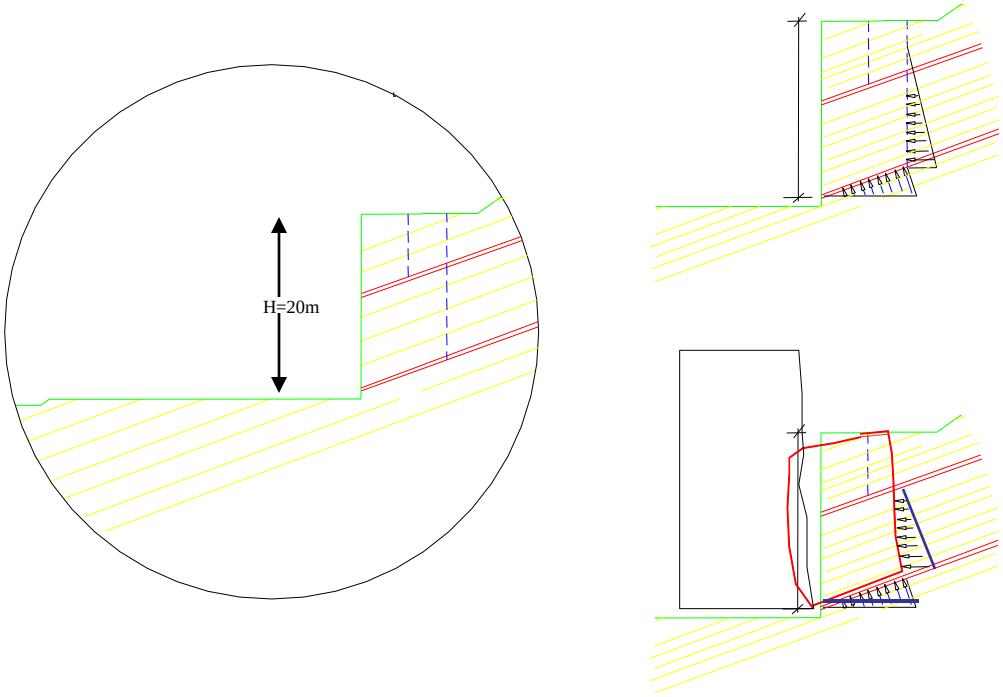
CASO LOMAS DE URDESA GUAYAQUIL

EJEMPLO PARA APLICACION DEL ANALISIS DEL ESFUERZO CORTANTE



CASO LOMAS DE URDESA GUAYAQUIL

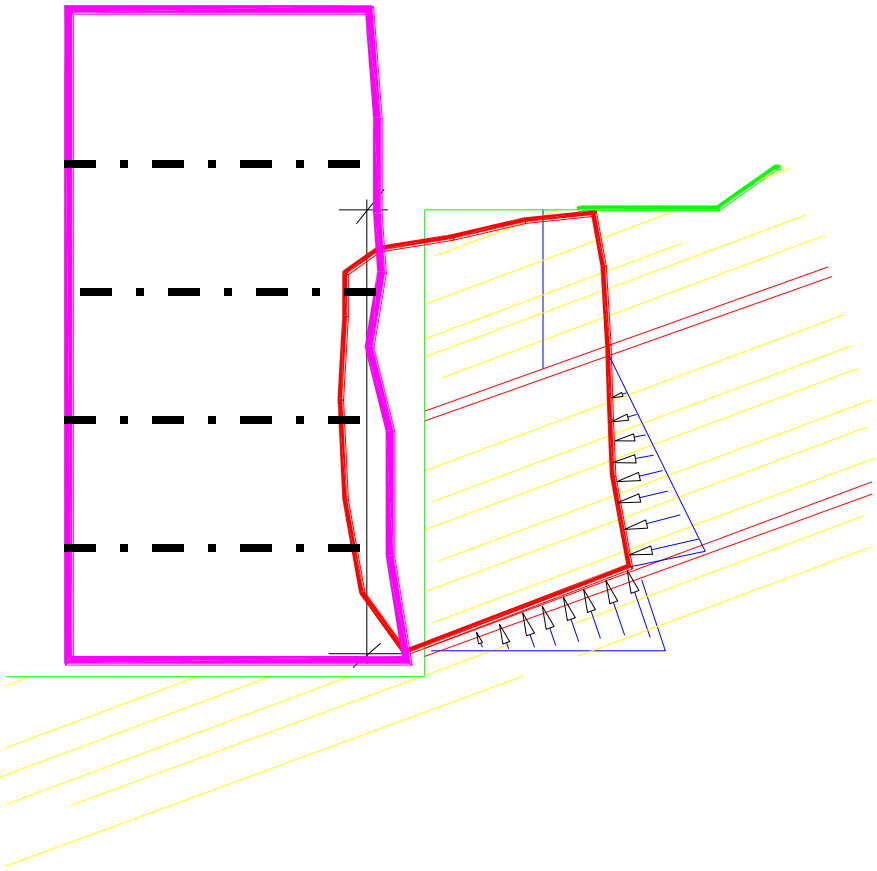
EJEMPLO PARA APLICACION DEL ANALISIS DEL ESFUERZO CORTANTE



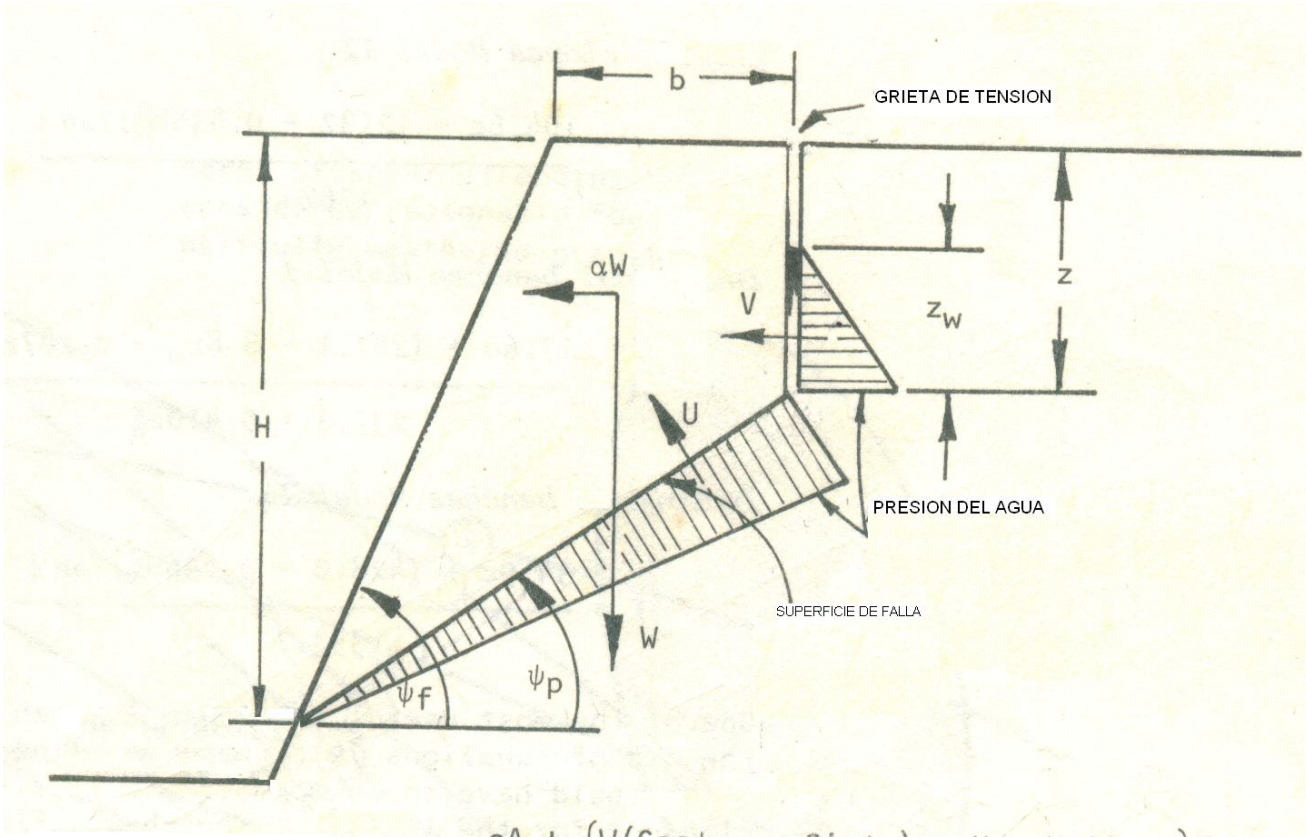
CASO LOMAS DE URDESA GUAYAQUIL

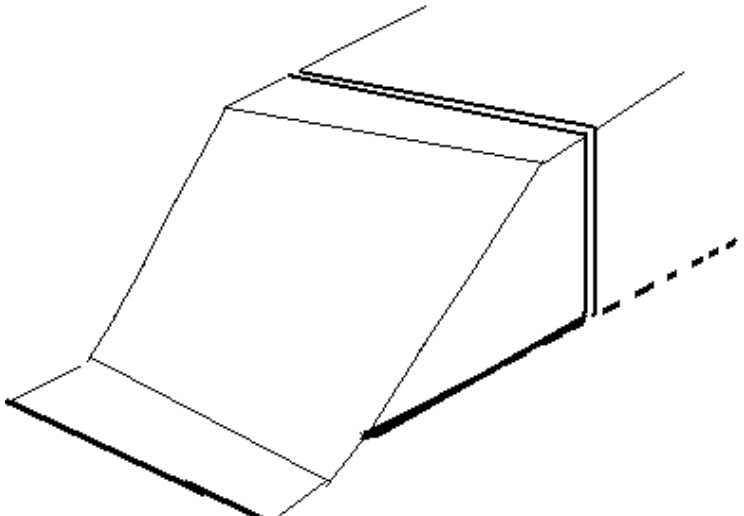
EJEMPLO PARA APLICACION DEL ANALISIS DEL ESFUERZO CORTANTE

EDIFICIO EN
CONSTRUCCION



DESLIZAMIENTO PLANO CON GRIETA DE TENSION





$$F = \frac{cA + \left(W(\cos\psi_p - \alpha\sin\psi_p) - U - V\sin\psi_p\right)\tan\phi}{W(\sin\psi_p + \alpha\cos\psi_p) + V\cos\psi_p}$$

DONDE:

$$z = H\left(1 - \sqrt{\cot\psi_f \cdot \tan\psi_p}\right)$$

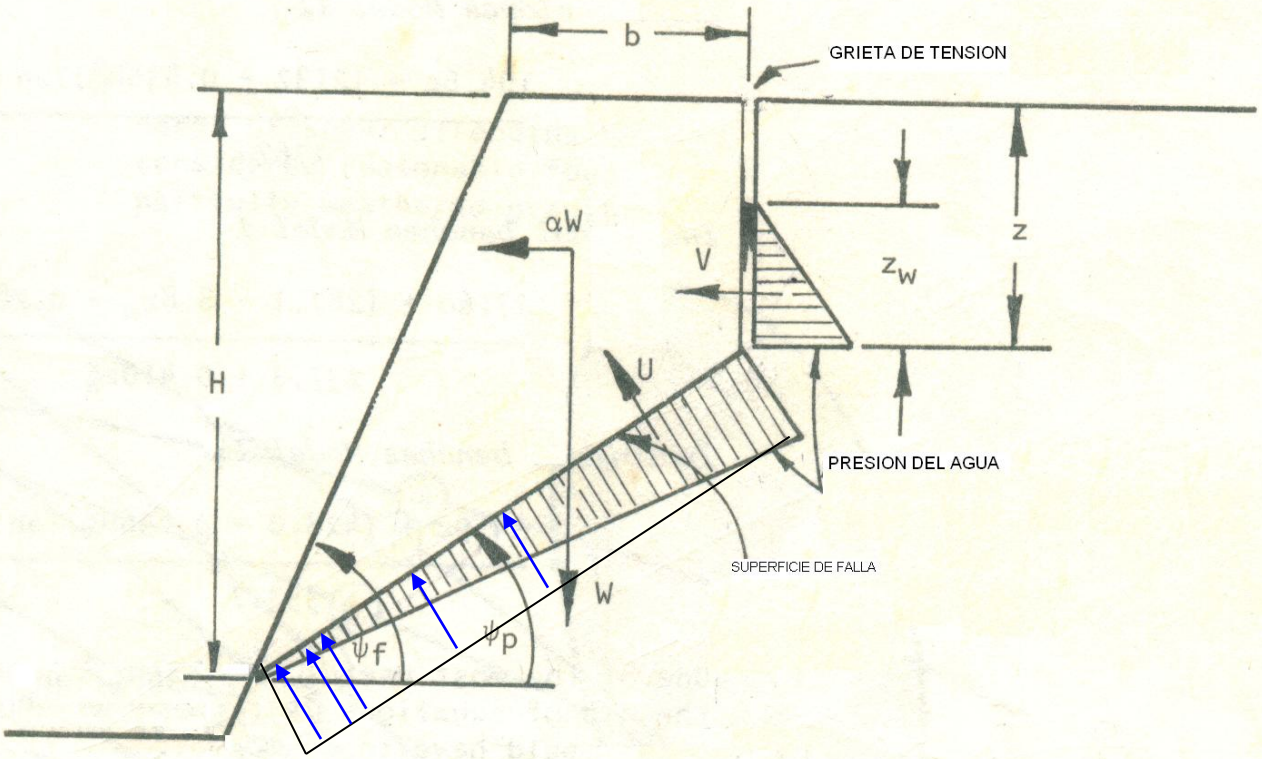
$$A = (H - z)\,\mathrm{cosec}\psi_p$$

$$W = \tfrac{1}{2}\gamma H^2\left\{(1 - (z/H)^2)\cot\psi_p - \cot\psi_f\right\}$$

$$U = \tfrac{1}{2}\gamma_w \cdot z_w \cdot A$$

$$V = \tfrac{1}{2}\gamma_w \cdot z_w^2$$

DESLIZAMIENTO PLANO CON GRIETA DE TENSION SIN DRENAJE



$$F = \frac{cA + \left(W(\cos\psi_p - \alpha\sin\psi_p) - U - V\sin\psi_p\right)\tan\phi}{W(\sin\psi_p + \alpha\cos\psi_p) + V\cos\psi_p}$$

DONDE:

$$z = H\left(1 - \sqrt{\cot\psi_f \cdot \tan\psi_p}\right)$$

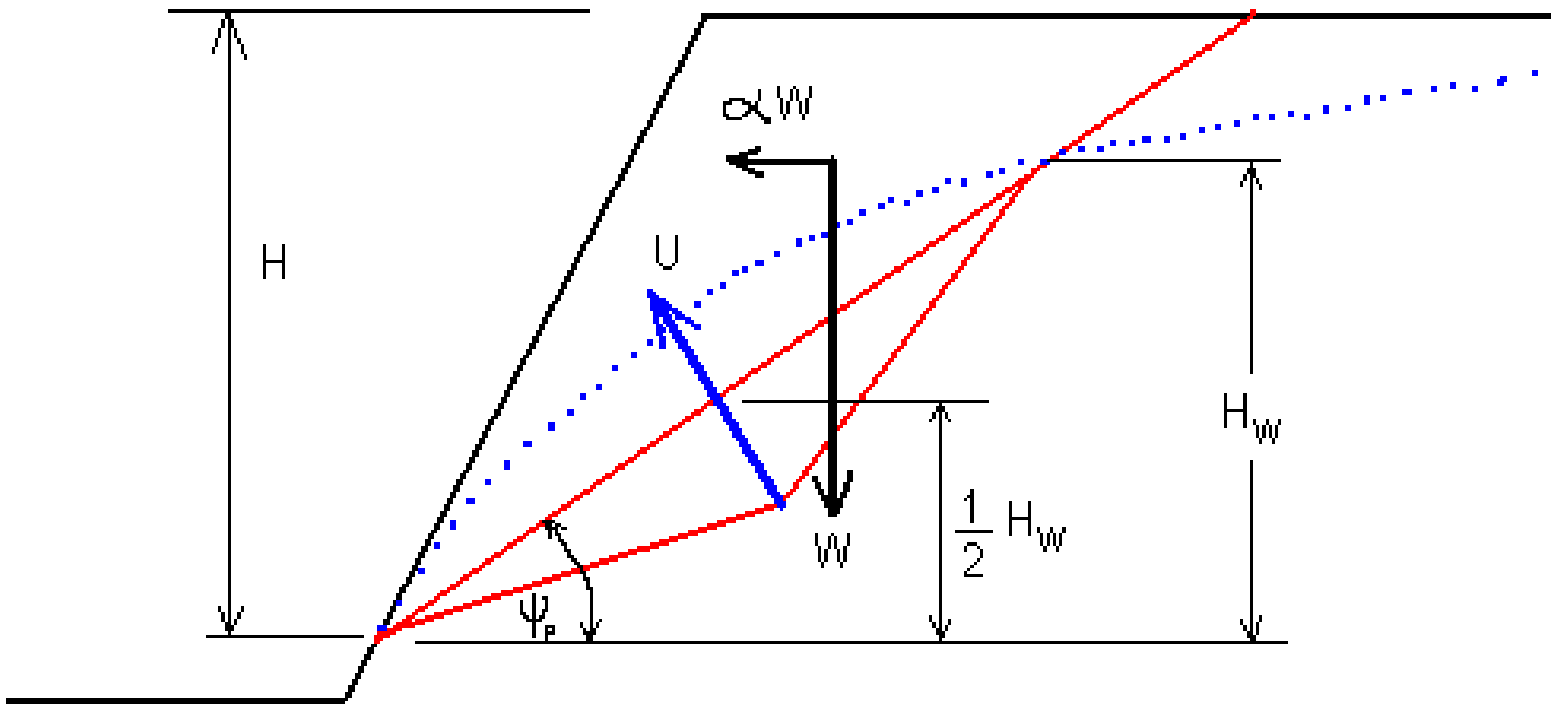
$$A = (H - z)\,\mathrm{cosec}\,\psi_p$$

$$W = \tfrac{1}{2}\gamma H^2\left\{(1 - (z/H)^2)\cot\psi_p - \cot\psi_f\right\}$$

$$U = \gamma_w \cdot z_w \cdot A$$

$$V = \tfrac{1}{2}\gamma_w \cdot z_w^2$$

DESLIZAMIENTO PLANO SIN GRIETA DE TENSION



$$F = \frac{cA + (W(\cos\Psi_p - \propto \sin\Psi_p) - U)\ \mathrm{Tan}\ \phi}{W(\sin\Psi_p + \propto \cos\Psi_p)}$$

$$U = \frac{1}{4}\gamma_w \cdot H_w^2\ \mathrm{Cosec}\ \Psi_p$$