

# Grad Shafranov equation

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$$\Delta^* \psi = -R^2 \frac{dP(\psi)}{d\psi} - F(\psi) \frac{dF(\psi)}{d\psi}$$

where

$$\Delta^* = R^2 \nabla \cdot \left( \frac{1}{R^2} \nabla \right),$$

$$F(\psi) = RB_\varphi,$$

and  $P$  is the plasma pressure.