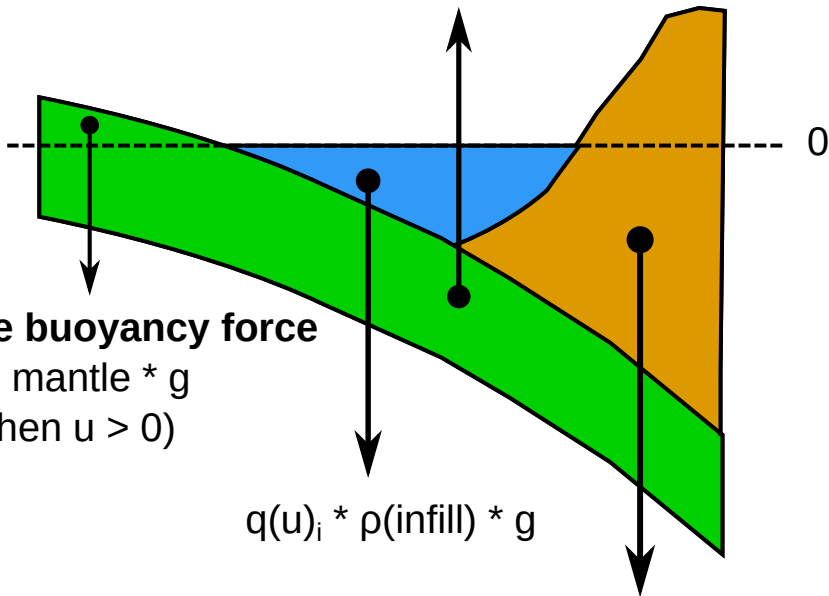


Mantle buoyancy force

$$k u * \rho_{\text{mantle}} * g \text{ (+ve when } u < 0 \text{)}$$



Mantle buoyancy force

$$k u * \rho_{\text{mantle}} * g$$

(-ve when $u > 0$)

$$q(u)_i * \rho(\text{infill}) * g$$

distributed load - may or may not be covered by additional sediment
 $q_i * \rho(\text{fixed load}) * g$