

# Porous media

## Porous Media

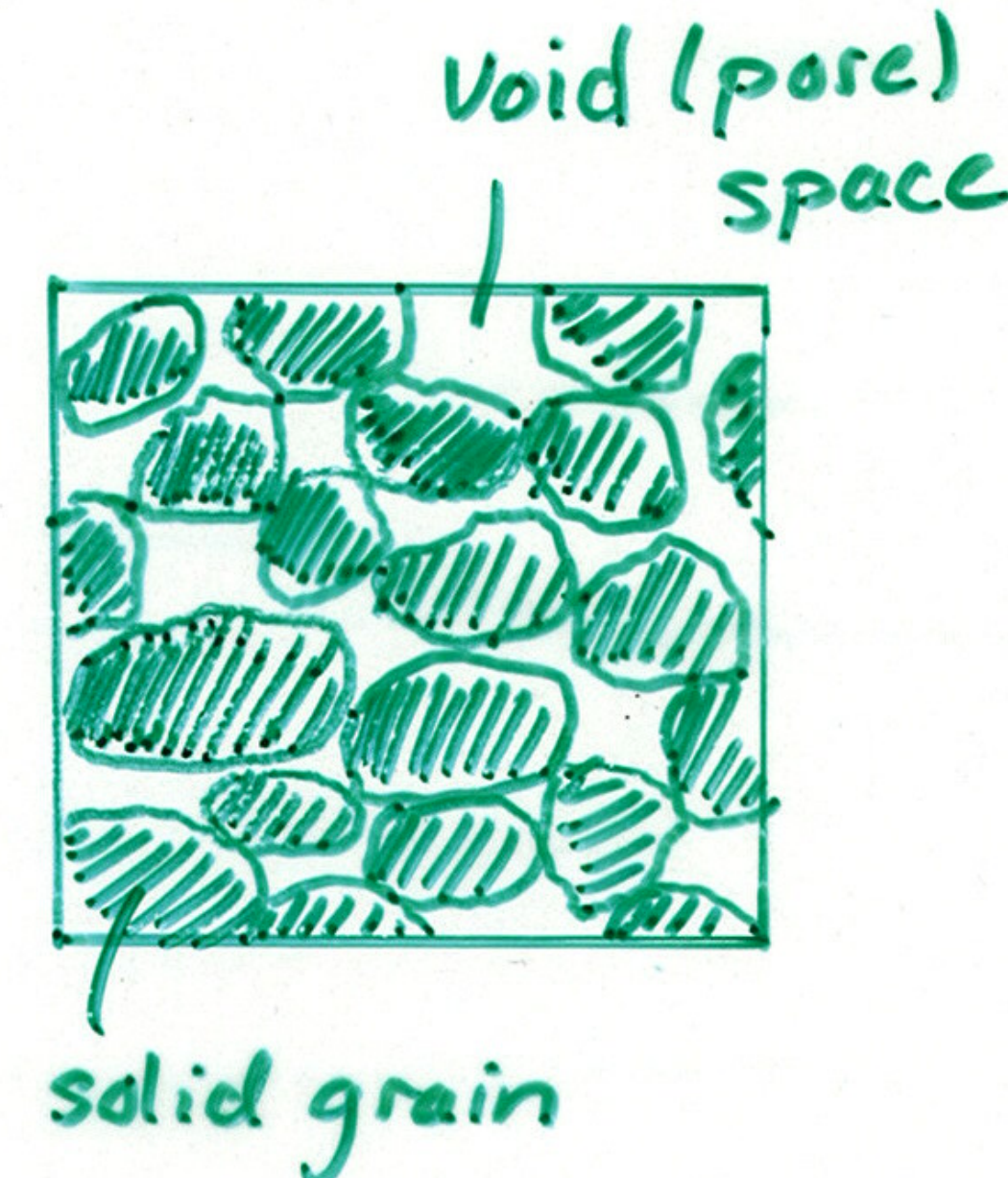
Volume of void space  $V_p$

Volume of solid  $V_s$

Total Volume  $V = V_p + V_s$

Porosity

$$\phi = \frac{V_p}{V}$$



a detailed distribution of void (pore) space is not usually measurable

Macroscopic Properties

- porosity (pore volume fraction)
- specific surface area (ratio of solid volume to surface area)
- permeability (ease of fluid flow)
- electrical formation factor (influence of geometry on electrical conductivity)