

1. Summarize Standing's "fundamental concepts" (in class, these postulates were referred to as the "channel flow theory").

- Fluids in pores are under capillary control
- Each fluid moves through ~~a~~ separate groups of pores
- Fluids tend to block flow of other fluids, requiring flow-path length to change as saturation changes

2. Sketch a frequency diagram showing relative pore size filled with water, oil, and gas for a preferentially water-wet system.



3. Graph the line $k_{ro} = 0.2$ through the points $\{(S_g, S_w, S_o)\} = \{(0.00, 0.60, 0.40), (0.25, 0.25, 0.50), (0.25, 0.00, 0.75)\}$. NOTE: The scale shown at the bottom of the diagram applies to S_o

