

- **Mays**, Water Resources Engineering (Ch. 6)
- **Dingman**, Physical Hydrology (Ch. 9)

(Non-exhaustive) list of possible questions on Lecture X:

- See exercise in the slides.
- How is the water flow in an unconfined aquifer approximated under the Dupuit assumption?
- On average, will a sandy formation have a greater or lower specific yield? And specific retention?
- Given the groundwater flow equation (three-dimensional transient flow through a saturated anisotropic porous medium) – how does it simplify if we assume isotropic and homogeneous two-dimensional flow?
- What does Darcy's law state? According to Darcy's law, to what is the water flow proportional?
- Describe the major limitation of the Dupuit-Forchheimer discharge formula.
- Is storativity generally higher or lower in a confined aquifer compared to an unconfined aquifer?
- Storativity corresponds to the specific yield in the case of confined or unconfined aquifer?