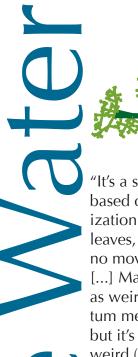
Pumping Water

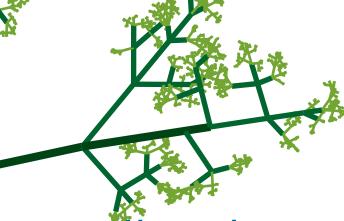
Evaporative Pull

 $\Psi_{wv} = 135 \bullet \ln \frac{\% RH}{100}$



"It's a solar engine based on the vaporization of water in leaves, and it needs no moving parts. [...] Maybe it's not as weird as quantum mechanics, but it's about as weird (and wonderful) as physical biology gets."

Steven Vogel The Life of a Leaf Raising Water



Poiseuille's Flow

$$\mathbf{J}_{\mathbf{v}} = \left(\frac{\Delta \mathbf{p}}{1}\right) \left(\frac{\pi}{8 \cdot \eta}\right) \cdot R^{4}$$

Euler's Column

$$F_{cr} = \frac{E \cdot I \cdot \pi^2}{L_{eff}^2}$$

Current Topics in Biophysics (SC/BPHS 2090 2.0)

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