

of permittivity ϵ_2 , and the lower region $z < -t/2$ is a uniform linear dielectric of permittivity ϵ_3 . Suppose the lower infinite x - y -plane $z = -t/2$ has a uniform surface charge density $-\sigma$, while the upper plane $z = t/2$ has a uniform surface charge density σ . What is the energy per unit area of this system? What is the pressure on the second dielectric? What is the capacitance **per unit area** of the stack?