has its own by Solida shape changer = pressure I shear & this complicates ignore solids E=E(89:V) 7-9V Jos, I displace piston F = dif. work adR dR= FodL

DR= FADL=P. ADL AdL = - dV JR=-PdV E = E(S,V) DE= DE dS + DE dV DE=TdS-PdV): P=+3T thermodynamic identity valid for reversible change only; olso called combined 1st 2 grd long