Heroperaties of Solids => Steven (s) = F/A sterain - Ox/2 Modules of clasticity = steven Youngh modules Y= Fl ADL Bulk modules B(N) = F/A = - DP=Pgh N/m2 Shearing modulus or enginety modulus $\eta = \frac{F/A}{\theta} (\theta = 1/x)$ - liquids & gases have only bulk moderly \rightarrow Every wise is like a spring whose force comt = $\frac{yA}{L} = k$ Potential energy in where U=1/2 k (OL)2 per volume U=1/2 xytren x yterain - solids, liquids bulk modules is comt but for gones it is PRIOCESS dependent B=B7=P for yothermal 8=85=1P Be adiabatic Compremitally = 1/B only half of work stored in potential energy ecemaining is don't in fourm of 0=19 mg (01) heat, sound, etc. Y A Buttle material -> Storen - sterain everye. o > lateral strain + Poinon vatto longitudenal atrain AV = (1-20) AYL -trop contract the of white of a = -1 400.5 generally of = 0.2 to 0.4 Atrain energy = 1/2 Fe = (Arrow)2

7=2n(1+0) 4=3K (1-20)

