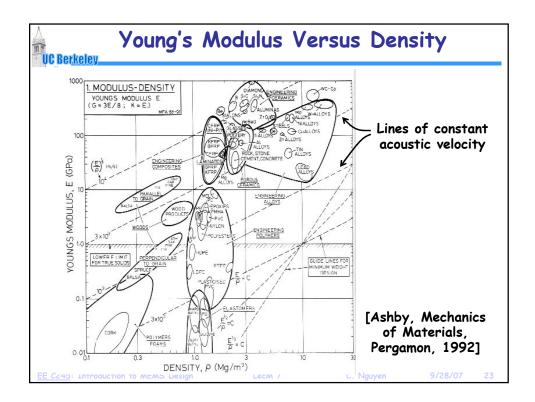
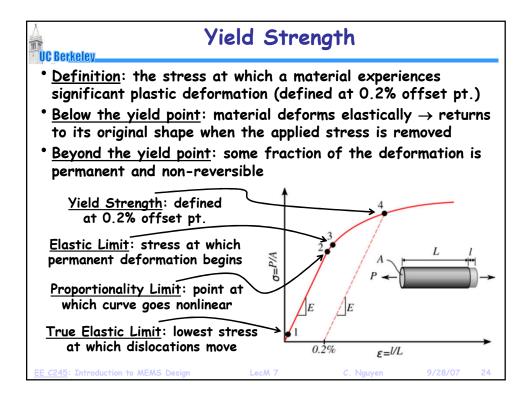
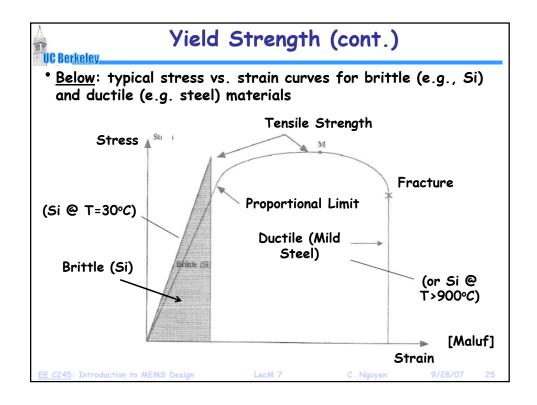


			Units (m/s)		
Material	Density, ρ,	Modulus, E,	Ε/ρ	1	
Silicon	Kg/m ³ 2330	GPa 165	GN/kg-m 72	√(E/ρ) is acoustic velocity	
Silicon Oxide	2200	73	36		
Silicon Nitride	3300	304	92	-	
Nickel	8900	207	23	1	
Aluminum	2710	69	25	1	
Aluminum Oxide	3970	393	99		
Silicon Carbide	3300	430	130	1	
Diamond	3510	1035	295	1	







	Stored mech	nanical energy	_	\frown
Material	Modulus, E,	Useful Strength*, o _f ,	$\frac{\sigma_f}{E}$	$\left(\frac{\sigma_f^2}{E}\right)$
	GPa	MPa	(-) x 10 ⁻³	MJ/m ³
Silicon	165	4000	24	97
Silicon Oxide	73	1000	13	14
Silicon Nitride	304	1000	3	4
Nickel	207	500	2	1.2
Aluminum	69	300	4	1.3
Aluminum Oxide	393	2000	5	10
Silicon Carbide	430	2000	4	9.3
Diamond	1035	1000	1	0.9

