

3. 2 rods both I'm diameter, 3 FF. Long I would choose the TO measure The weight we each rod Since we You to calculate The with wight but TO make Sure I on Confident in What material I have I would also do a Deplection test to get Young's modules. IF This is still not Good enough to Determine The material the I was Then I've "hurses Test and Visual Description To Determine The mexenter. suratch test RO2 B. - Russish, Brown, Tarnisher - Shiny, Bressy Wer deep Strath -W= 1,00 16F = 4.08'23 K5 - Unit weight (w) = 4.00 lbF (36 in) = .318 1bF (71(.5 n) (36 in)) = .318 1bF (36 in) = .318 1bF 17.67 (PS:) TElin)4 17.67

64 Rod Bis Copper 29.82 HT 1885

. 1	Malline exements HWZ January 26,2000
	a, For a ductile material in a gensile test, There is no appreciable difference between The engineers and True Stress- Strain write? False.
	6. Ductile material tends to Fail along Planes up maximum Sheer Stress C. Brittle material tenss to Pail along planes of maximum
	normal stress. I Material There is normally puertice can never behave as it it is Brittle. False C. i. creep:
\sim	ii. Toughness:
2.	6. $\delta = \frac{PL^{3}}{3EI} - 2 = \frac{PL^{2}}{3I\delta} = \frac{64PL^{3}}{3I\delta} = E$ b. $V = \frac{E}{2(1+V)} - \frac{E}{26} - 1 = \frac{PL^{3}}{3I\delta} = \frac{C}{K'\Theta}$
	$V = \frac{\left(\frac{PL^{3}}{3I\delta}\right)}{\left(\frac{TL}{2K'\Theta}\right)} - V = \frac{PL^{3}}{3I\delta} \cdot \frac{2K'\Theta}{TL} - \frac{PTId^{4}\Theta L^{2}}{I\delta T}$ $V = \frac{2}{3} \cdot \frac{PL^{2}\Theta K'}{I\delta T} = \frac{1}{24} \cdot \frac{PTId^{4}\Theta L^{2}}{I\delta T}$
	$C. \frac{N}{m^2} = \frac{N}{m^2} \frac{N}{m^2} \frac{N \cdot m^4 \cdot m^2}{m^2 \cdot m^2} = \frac{N}{m^2} \frac{N \cdot m^4 \cdot m^2}{m^2} = \frac{N}{m^2} \frac{N \cdot m^4 \cdot m^4}{m^2} = \frac{N}{m^2} \frac{N \cdot m^4}{m^2} = \frac{N}{m^2} \frac{N}{m^2} = \frac{N}{m^2} \frac{N}{m^2} = \frac{N}{m^2} \frac{N}{m^2} = \frac{N}{m^2} = \frac{N}{m^2} \frac{N}{m^2} = \frac{N}{$

Los 2 Cul. E = 110208,155 N (1000 MM) E=1,1.10"N) 1.10208 .10" D = 12 T= .99 N.m L2 1100 mm j = 1 . 62 0 = . 01372 = 20557 to 100 6= TL Distlann 6.322 w 2 mm 12.06 mm 0 = P/F $G = \frac{E}{2(1+V)}$ $I+V = \frac{E}{2G}$ $V = \frac{E}{2G} - 1$ (- (.91 N.m) (l.) m).

(2035, 100 (1000 pm) ,) (+ 2 m m) (= 3.89 · 10 N/m2 V = . 413 E- PL 6= 1.726.42 mn L= 1.1 m 2/6/2 P= 1100~ A= 113,1 mm2 E= (1100~)(1.1m) - 1.0999 11011 (118. 7 mar . 10002) (1, 726. 62 mm. (am)