Trishna Date (\mathbf{n}) Page ECHANICA notente of Sold The tendency of an object to regain # position origina Configration original up to its Dejourning force Jum Elactic Limi Tendency to opposse any change in its # body Size by a Which is Mene elastic?? Still an Rukku? Still, keeque it come very speedly to its Ø original periston the Elasticity? Malecule - Deforming Force (external Restoring Force intermolecular Force Hole 50 Yo to 50 lo. D. 2 M



SE Vande Krishna Small. Date 2 Page (Minimern Stable Patuto Ð 10 10γX r= (inter moluler d's tonce) PE pon Stable. ion imenal RESS:-The internal restoring force per unit cross 51 sectional Area. Restoring Face = Deforming Force 150 > Fe State By FR = Fert 99%. Cal ein-FR Scale Insor m² A Crowsul YPES : VOLUME STRESS TONGENTIR SHEARING ONGITUDINAL Fet OFERO OFF AA R Tensile Stress Ft 6 6 4 GOK P-A Omprusive AP. 0 2. Russel esille - Po) by Planke Ba (>>

Sind -> Small -> Q tond -> Small -> Q Krishna-Date Page 2 RAIN Change in dimension No S original dimension. ENC It is an effect which is produced by deforming force. YPES VOLUME STRAIN SHEAR STRAIN LONGI TU DINAL iui TOIL sl, Small 202 EDR F AJ DX z tono > 0. Becaue it Come radion) to be nighter Ę 201/2 Ð vain-,m portanel Storiss 2 EStoin Propositalesty Constant YOU m2) Hadulus Elospicity A Strus Mahial, Strain Coonn d hy Comecon

Krishna Date Page (\mathbf{i}) YOUNG'S MODULUS OF ELASTICITY > langitudinal Strass langitudinal Strain. or (a) 10 0 Fd ADD (1)SHEAR MODULUS OF ELASTICITY Shean Strips MODULUS OF Shean Strain; RIGIDITE G= F+ ADX. Brudding Ft 000 BULK MODULUS OF FLASTICITY Valum Streps OMPRESSIBILIT Valum Strain, 2 SPU \boldsymbol{z} 42 2018585 Soonnad by Componnar

Date Ŝ Page Elongation of a stul bas 1 m long and 1. swi Croser Sectional Area certan, Subjuried to a pull of 1.5 × 104 N, (Ys = 2 × 10" N/m^e) Q O.Smm (d) ().2mm đ 6 0.3mm α) 0. Imm PJ Strees ADR. al ? Ed AY. 1 2/00-11 z 1.5 x10 4 x/ 1,5010-4 x201011 2 0.5 x 10-3 m = 0.5mm Wire -> Breaking stores 220105 N/m2 Find the run Grow Dechional Area of wine Do that it doesn't break. 7 R 29 144 a) 3-33 cm2 of 1.3300 2.66 m2 b) 1.6 cm 2 <u>a</u>` Trick to An Stories = F AQ. 2mi me 44-72 4a dy? dy 29269 Stru 2 2×1032 29 T 2 29 07 29 A = 09 3020105 1. annad by Compaan

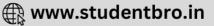
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(8) Krishna Date Page в 8 × 16 A Z 3 220104 20102 Az 4 x 10-4 3 Az 1.33 x 1054 m2 1.33(m2 Eind the extension in a wire of lingth (1) Gran Section Area (A) drawy (A) (Young) Modulu of Elasticity y under it orien weight ?? a n'q 6 MgLOW ZMQL 3AP C d') Mgl 2 A 34 2Fl M the ADI Sul 2 Pul ß North PR LAM n -> Ma · llongada in Small ubrent 'dri' e dy delz AY Mrg dre Mart ? Sil Contrala 5Lol Mgs 2dx 7 ATY 2 Z 2 Mg AE De 2 MgL 2AY

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Krishna Date Page 9 M2 2 1 + V O that Mg A 2 M 2 When should a mars no, Yez 10" N/m Rept So that in stell for Copper wine, we abbin 2 ploth h Yc 4 Par (i) uquel istrusm- monabes Tip uquel strain (ii)a)Stris) 2 Streer 1.00m 0.50 6 12 0.33m C) p. 2A 1.33m 5 T222TI 1.66m0 O.Om That 20 aguil brim 12 · ar Tim TM-27, (2-21)20 2-4+22/20 1 - 146 32 29 12 n 2 1= 33 17 VODA Atte cri v Com Coonn

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Krishna Date Page 10 Straight 2 (Shon) OLKS LA 2.2 8/16 2 Struy Shim Sans Sters Po 9 Pilo 2 101 Trz Tz Tract 20 JS N Versen Sherry 5 -T2 (FN) 20 011 01 03 Tin-2 +1/20 χ 2722 110 nzi 613 dept of Indian Olean 300 m. is about fractonal Comprision of water ~ll Tho of Olian the battom 92 10m/22 Q. 2×109Nfm fw 2 10 3 kg/m3, Bulle Mod of water 22 Valum Store = F = P. P <u>AU</u> Velim Shin 2 300 = Val. Grang - PV dulp su Val. Shain 2 BX 10 N/me Conned by Comeconny

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MISHNA Date $\widehat{\mathbf{n}}$ Page (01) 3×10° 2.2×109 9 (S101) -All 10 B slap of Side Soum & Thickness Q Ż be displaced. lo cm Haw M with edge upper elacticit Shear Modulu lisel, G = S.6 × 109 N/me 9704.N. P-Som 50 70104 05 Shear Shey = M SO \$10 x10 -4 DX SO Shen Shein 2) 9x 164 9 × 10 43 8 : 5876.204 So MENIO 10 9 x 9x10 52010 ON. n 80- x 1-0 x10 50: 1-0 inter 9×107 REW 9.01 Ca A look 2 Valumo Stores = 77 1 TF Py mal. adam AUL not? toi

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Elastic Region main 3D Krishna Date Page 12 TRESS-STRAIN URVE. etertic Um Breaking Stress X Shain Rupoint B Stourd Linut 0 Propáratio Max Strues E (1 preling Remanent Strain Strains mul. OA -> Strues ~ Strain. (Stores) limit of properanality Ay - Stories - Medulus of Elasticity. Slope = B -> elastic unit Stores) TENSH-Rugion Lange o'dant? Force is remarked uptil B, wire returns to its original state. A -> B strus & shain. 5 01729 No Plastic Region. and ulma Rooton Thanks. Soonnad by ComSconna

Trishna B-D Plachic Region Date Page 18 ter B >. Small etus plange shain lashin Woming Rasce Revelal. Remainent Strain Stries-Max Breeding Streps of deferming Drien after timeral of Force live fleeur (thinning of wine, 1 Kgurs Ruptine Kain # OB -> Elastic Region 1002 # BD → Plachic Region 1) DUCTILE TENSILE in set o Kigion Large lastic 2 BRITTLE Ni Region small. lashic DANTID A 6-A ELASTOMER 3 No <u>Plastic</u> Region, only have. NO Region elactic Kubba

Adis Date Page has more tronville strength du cHI Strain Britle is More ductile P is More brittle 0) Striss I of P is Kore than that d Slape z Strain Struss (Slope) p> (Slape) Ja > YF NERGY STORED IN A STRECHER WERE - X Stries & Strain & Valume = Stress PE Vel· × Storios × Shain, Strain P1Z Val -x & x (shain mail on / or incho wind? QUUCKS Vá = West

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E YA DI Krishna Date 13 Page VATION 1200 N 0 yorce F Small Work done in Strucking wine dri amain by is streeched when it amount upto dw z Fdx, dwz PAL U, 0 SL W 2 ž Wz 21 151 112 · LOV 6-6 Strain X X Va a W2. Strain & Stours & Strains Valume E=W= Connad by Comeoon

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Krishna Date Page Cumuno Fr TL. FR PRZK AL YA -02 KM 2 DZ K2 A Energy stored in a storeched spring = $k(\Delta x)^2$ (d) × L AZI (DZ)² TO = 1x 7 x val x (Shain) 2 1 2 Stoces & Strain & valence. 12 Palaci lumpth Me Trivel Changy Hoger ComCoonno Soon

Date 17 Page. A ruben Cond of lingh locon is struched upte 12 cm . If Grow cerebaned ance of cond is 7 gind the velocity of a medelle (mars 5g) is hit upon with this subber lond 1 mm2, helich " Rukb = 5 x 10 " N/m2), b) 20mls () 15mls d) 0 m/s a) lom/s Tuncion / Forutt > YAL = 100 N. Ullorly V? JEI 100 12 0 10 1(-2) z 20m/ RESSE HER Heat deponds Robo + sil Pou DU 2 (alpha) Thermal Conflictint of linear deponsion tamp Increase, Unit unit lingth Me. Kitha Chonge Aloga

Twoll Krishna Date Ya I Page A Temp size -> DT Compsessive New length Nat to Streps. = ut su Thermal > JUJX BT. Shein DI Thermal Strug Ngmal ery -> l strain Psd J. Storus b Stein SBX alor 6 Stree dast) Themay ú 2 Shrin XD G NI MON Haw much Force:-1. 1 600 Strues 2 A Strenova Jeen Z 10/07 min 01260 . 17 O'LOT - O. LOW 6 cution 12×10-6 % 10-3 6000

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Date Page diameto domin A still read of longth 6.0m is fixed as whom . If Temp Temp ZDN10 6 Keg find the stores in rod. 2 13 × 10 % Py 1= 00°C DIZ JOK DT. =20 if st Shainz Dul = Stars > Stein ast. 2 2 x 10° Kg x 12 x 20° x 00. 1920Kp (cm)2 Q. Ayou that In the print dus a spored by 1 mm allound to yould ùt 1920 Ø Mon Kitne expand muth 0) Lers_ Korna Charlad the. 1 x DTA Shain mm Strew 2 Y Shan \$000T-1mm >2x10°/ $z 2 \times 10^{6} (2 \times T - 0.100)$ 2010 (12010-6000 -01 d by Compoon

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String > Y GOT Krishn! Date Page 20 = 1920 - 2×10 N. 6000 1920 - 20103 2 1920 - 11000 1920-333.3 > 1586.67 Kg/0m2 -ISSON'S ATIO. Z latinal Strain I 31 lingth increase by 17. if 5 = 1 , yind the 7. change, in its hal, 1 2 In Crem black a of philanes b 1000 dinew-O.S.Y. Incher 0.57. Decrars. 0 114 ComCoonno

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