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MECHANICS OF MATERIALS

78 MECHANICS OF MATERIALS TORSION Torsion stress in circular solid or thick-walled ($t > 0.1 r$) shafts: $J_x = Tr$ where J = polar moment of inertia TORSIONAL STRAIN limit $r_z // rd dz z 0 cz z == DD z z D ^ h ^ h$ The shear strain varies in direct proportion to the radius, from

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MECHANICS OF MATERIALS Edition Beer • Johnston • DeWolf 8 - 16 Sample Problem 83 SOLUTION: • Determine the gear torques and corresponding tangential forces () 199N m 249kN 2 80Hz 10kW 398N m 663kN 2 80Hz 20kW 373kN 016m 597N m 597N m 2 80Hz 30kW 2 = = · = = = · = = · = = = = = = · D D C C E E E E T F T F r T F f P T π π π

FE ReviewMechanics of Materials - Purdue University

FE ReviewMechanics of Materials 30 1 T he e l e m e n t i s s u b j e c t e d t o t h e p l a n e s t r e s s c o n d i t i o n s h o w n a - x = - 1 4 0 M P a a - y = 2 0 5 M P a T x y = 1 0 0 M P a

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FE Mechanics of Materials Review r T Tr J τ= τ= shear stress, force/length^2 T = applied torque, force·length r = distance from center to point of interest in cross-section (maximum is the total radius dimension) J = polar moment of inertia (see table at end of STATICS section in FE review manual), length^4 TL JG φ= φ= angle of twist, radians L = length of shaft

Modules in Mechanics of Materials List of Symbols

Modules in Mechanics of Materials List of Symbols A area, free energy, Madelung constant A transformation matrix A plate extensional stiffness E modulus of elasticity, electric field E activation energy E viscoelastic stress operator e electronic charge eij deviatoric strain F force fs form factor for shear

About the Book MECHANICS OF COMPOSITE MATERIALS

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MECHANICS OF MATERIALS Third Edition Ferdinand P Beer E Russell Johnston, Jr John T DeWolf Lecture Notes: J Walt Oler Texas Tech University CHAPTER

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