

SNS COLLEGE OF TECHNOLOGY



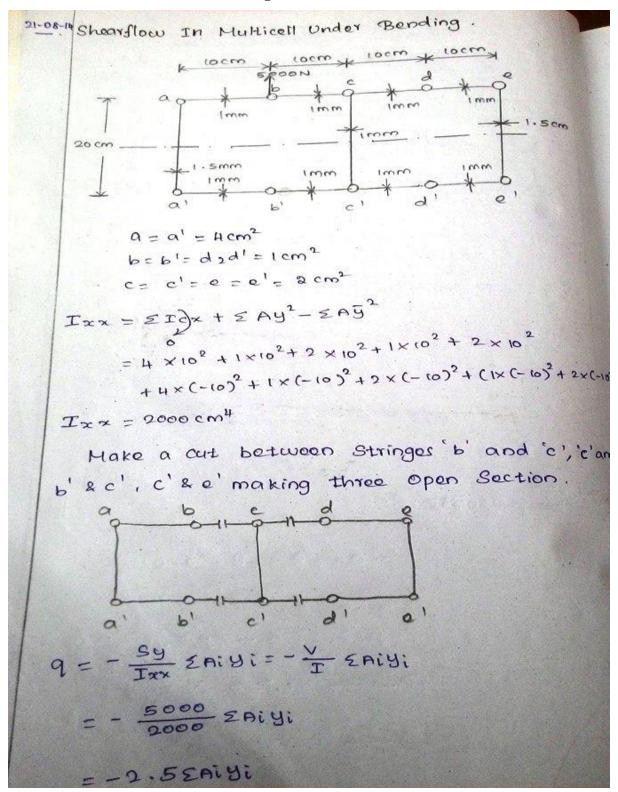
(An Autonomous Institution)

DEPARTMENT OF AEROSPACE ENGINEERING

Subject Code & Name: 23AST205 AEROSPACE STRUCTURES

UNIT: 3. SHEAR FLOW IN CLOSED SECTIONS

TOPIC: 6. Shear flow in single & multicell structures under torsion



960 = -8.5(1)(10) = -05 N/cm 9 aar = -2.5(4)(10)+9 ba = -2.5(4)(10)+(-2.5) 9 aa' = - 125 Nfcm 9ab = - 2.5(H)(10) + 9aa = - 25 Nlon 9 ec 1 = - 2 ,5 (2) (10) 9cc1 = - 50 NIcm 9de = - 2.5 x 1 x 10 = - 25 Qee' = - 2.5 (2)(10) + 9de = -75 N lcm 9 e'd' = -2.5 (2)(-10)+ 90e' =- 25 N (cm 5000 N 50 en (, p - , p) 25 , 0 A1= 20×20 = 400 A 2 = 20 × 20 = 400 AAOHRENA MAR Moment about b -125 x20x10 -25x10 x20+50x 20x10+75 x20 +25 x10x20+2A19,+2A292 =0 2 (A191+A292) = -30000 A191+A292 = -30000 A191+A292 = - 15000 400 91+400 92 = - 15000 = 400 (91+92)= 9,+92=-37.5

