

SNS COLLEGE OF TECHNOLOGY

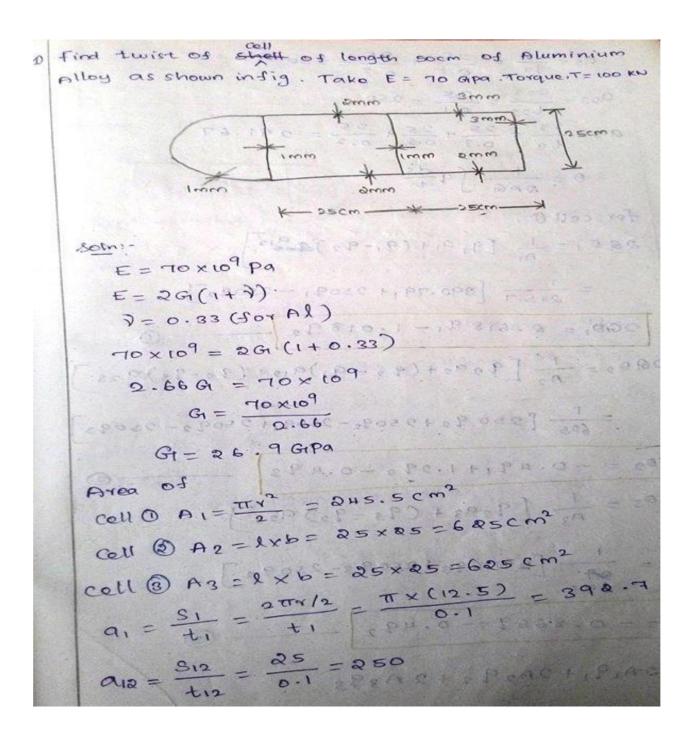


(An Autonomous Institution)

DEPARTMENT OF AEROSPACEENGINEERING

Subject Code & Name: 19AST203 Aircraft Structural Mechanics

TOPIC: Shear flow in single and multicell under bending with walls effective



$$a_{2} = \frac{80}{42} = \frac{25}{0.2} + \frac{25}{0.2} = 250$$

$$a_{3} = \frac{823}{43} = \frac{25}{0.1} = 250$$

$$a_{3} = \frac{83}{43} = \frac{25}{0.3} + \frac{25}{0.3} = 241.67$$

$$\theta = \frac{1}{846} \int q \frac{ds}{t}$$

$$for cell 0.$$

$$260_{1} = \frac{1}{81} \left[q_{1} a_{1} + (q_{1} - q_{2}) a_{1}^{2} \right]$$

$$= \frac{1}{845.7} \left[3q_{0}.7q_{1} + 250q_{1} - 250q_{2} \right]$$

$$260_{1} = 8.618 q_{1} - 1.018 q_{2}$$

$$260_{2} = \frac{1}{82} \left[q_{2} a_{2} + (q_{2} - q_{1}) a_{12} + (q_{2} - q_{3}) q_{23} \right]$$

$$= \frac{1}{695} \left[250 q_{2} + 250q_{2} - 250q_{1} + 250q_{2} - 250q_{3} \right]$$

$$260_{2} = -0.44 q_{1} + 1.2q_{2} - 0.44 q_{3}$$

$$260_{3} = \frac{1}{83} \left[q_{3} a_{3} + (q_{3} - q_{2}) q_{23} \right]$$

$$= \frac{1}{625} \left[291.6q_{3} + 250q_{2} - 250q_{2} \right]$$

$$260_{3} = 0.866 q_{2} - 0.4q_{2}$$

$$260_{3} = 0.866 q_{2} - 0.4q_{2}$$

$$260_{3} = 0.866 q_{3} - 0.4q_{2}$$

$$260_{3} = 0.866 q_{3} - 0.4q_{2}$$

```
100 × 103 × 102 = 2 × 245.7×9,+ 2×625×92+ 2×625×93
  10×106 = 490.8 9,+105092+105093
                                      (10)
Assume 01= 02=03=0
    0 = 0
 Q. 61891-1.01892 = -0.491+1.292-0.493
2.61891+0.491-1.01892-1.292+0.493=0
   3.0189, - 2.21892+0.493=0-
    (D) = (3)
 -0.49,+1.292-0.493=0.86693-0.492
   -0.491+1.292+0.492-0.493-0.86693=0
   -0.491+1.692-1.26693=0 -
 Polve A, B, 6
  490.891+125092+125093 = 10 x 106
   (A) &(S).
```

