

AIRCRAFT STRUCTURES – II

REGULATION 2021 ANNA UNIVERSITY

01

UNSYMMETRICAL BENDING OF BEAMS

Unsymmetrical bending of beams – different methods of analysis (neutral axis method, 'k' method, and the principal axis method), stresses and deflections in beams under unsymmetrical bending.

SHEAR FLOW IN OPEN SECTIONS

02

Definition and expression for shear flow due to bending, shear flow in thin-walled Open sections with and without stiffening elements, torsion of thin-walled Open sections, the shear center of symmetric and unsymmetrical open sections, structural idealization.

03

SHEAR FLOW IN CLOSED SECTIONS

Shear flow due to bending and torsion in single-cell and multi-cell structures, the shear center of symmetric and unsymmetrical closed sections, effect of structural idealization, shear flow in a tapered beam, stress analysis of thin-webbed beams using Wagner's theory.

BUCKLING OF PLATES

Behaviour of a rectangular plate under compression, governing equation for plate buckling, buckling analysis of sheets and stiffened panel under compression, concept of the effective sheet width, buckling due to shear and combined loading, crippling.

04

05

AIRCRAFT STRESS ANALYSIS

Loading and analysis of aircraft wing, fuselage, and tail unit. Use of V-n diagram for sizing the aircraft wing, fuselage, and tail unit.

B.E AERONAUTICAL ENGINEERING 2ND YEAR SEMESTER V

Aircraft Structures Anna Univ Lab Manual

RD Boyd



Aircraft Structures Anna Univ Lab Manual:

The Journal of Environmental Sciences ,1977 Books in Print ,1977 **Scientific and Technical Books in Print**
,1972 **Who's who in Engineering** John W. Leonard,Winfield Scott Downs,M. M. Lewis,1964 **Pan-Pacific Who's**
Who, 1940-1941 George Ferguson Mitchell Nellist,1941 **Who's who in America** ,1962 **Who's who in Technology**
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