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Fundamentals Of Aircraft Structural Analysis

PART Fundamentals of structural analysis A

Most aircraft structural components are fabricated from thin metal sheet, so that stresses across the thickness of the sheet are usually negligible. Assuming, say, that the z axis is in the direction of the thickness, then the three-dimensional case of Section 13 reduces to a two-dimensional case in which σ_z , τ_{xz} , and τ_{yz} are all zero.

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which

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PART A FUNDAMENTALS OF STRUCTURAL ANALYSIS Section A1 Elasticity PART B ANALYSIS OF AIRCRAFT STRUCTURES Section B1 Principles of stressed skin construction CHAPTER 12 Structural components of aircraft

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Chapter 1: Aircraft Structures

Aircraft structural members are designed to carry a load or to resist stress In designing an aircraft, every square inch of wing and fuselage, every rib, spar, and even each metal fitting must be considered in relation to the physical characteristics of the material of which it is made

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aim, therefore, was to fill this gap and provide a self-contained course in aircraft structures which included not only the fundamentals of elasticity and aircraft structural analysis but also the asso-

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