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Structural design process, planning, design, construction, philosophy of designing, principal structural components of aircraft, wings, empennage, landing gear, the powerplant, structural integrity and failure, stiffness, service life, aerodynamic characteristics, load analysis, flight loads, maneuver loads, a structural design project may be divided into three phases, i.e. Planning, design and construction.

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Defining the various loads applied to aircraft structures, in regards to the design and construction of the fuselage, wing and tail section. Materials used in construction and the effects of corrosion and fatigue will be considered. Effects of a hard landing on the airframe, failure statistics are important in safe aircraft design.

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