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Aircraft Landing Gear Design Principles

a minimum, the gear designer must know the aircraft weight and its range of center-of-gravity (c.g.) position. From this, the options for wheel numbers and sizes can be determined, e.g., two large tires or four smaller tires at the end of a shock strut.

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The landing gear design and integration process encompasses knowledge of many engineering disciplines such as structures, dynamics, kinematics, fluid mechanics and runway flotation. The geometry, flotation requirements, mission requirements and operational requirements of the aircraft govern the landing gear configuration.

Aircraft Landing Gear Design & Development

For aircraft, the landing gear supports the craft when it is not flying, allowing it to take off, land, and taxi without damage. Wheeled landing gear is the most common with skis or floats needed to operate from snow/ice/water and skids for vertical operation on land.

Landing gear - Wikipedia

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The major components of landing gear include in modern commercial aircraft are wheel assembly, air/oil shock-transferring components, braking system, extension/retraction and safety devices, gear alignment units, steering control elements, etc. Aircraft wheel assembly needs to support the entire load during taxi, takeoff, and landing.

Landing Gear - an overview | ScienceDirect Topics

I design landing gear for a living for a major defense contractor and this book has been invaluable. The content is a little old, but most of the principals still apply to modern aircraft.

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The landing gear has been described as "the essential intermediary between the aeroplane and catastrophe" (Ref., p. 323). In support of this definition, landing gear design is considered to include the following items: Forward and aft landing gears.

Chapter 2: The Design Process | Engineering360

Oleo struts are critical elements of aircraft landing gear, connecting an aircraft's wheels to the airframe to provide the main path through which load forces are transmitted from the ground to the airframe. By converting a portion of the aircraft's kinetic energy to heat, oleo struts absorb and dissipate forces associated with landing.

How do oleo-pneumatic shock struts work? | Engineering360

Aircraft Landing Gear Design: Principles and Practices. This is a comprehensive text that will lead students and engineers from the initial concepts of landing gear design through final detail design. The book provides a vital link in landing gear design technology from historical practices to modern

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Aircraft landing gear design: principles and practices ...

9.1 DESIGN CONSIDERATIONS AND REQUIREMENTS Aircraft are steered by either differential braking or turning the nose gear. The former is satisfactory for tail wheel and light aircraft, although it is now common practice to equip even the light planes with a form of nose gear steering.

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