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Aluminum is the most widely used airplane material (fig. 8). Aluminum and low-alloy steels are the two groups of airplane materials most susceptible to corrosion. Clad aluminum sheet and plate are used where weight and function permit, such as for fuselage skins.

Aero 07 - Design for Corrosion - Boeing

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Aluminum alloys and other advanced materials by weight on the Boeing 777. Toughened 2000 series aluminum alloy properties. This alloy is for the body skin. Advances in 7000 series corrosion-resistant aluminum alloys. Advanced aluminum alloys with higher toughness and improved corrosion resistance. Misc. Steel Titanium Composites Aluminum 1%

The Boeing 777 - ASM International

DESIGN GUIDE FOR THE USE OF STRUCTURAL ... strength aluminum alloys, titanium alloys, steels, superalloys, ... taken to compile a manufacturing process manual (now designated as a Design Guide) of technical information and data on the production of structural shapes and tubing for aircraft and aerospace requirements. As evi-

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The 6061 aluminum alloy is common in light aircraft, especially homemade ones. Easily welded and manipulated, 6061 is very light and fairly strong, making it ideal for fuselage and wings. Alloy 7050 has high corrosion resistance and maintains strength in wide sections, making it more resistant to fractures than other alloys.

Aluminum alloys for aerospace - Aerospace Manufacturing ...

Aluminium alloys cover in most planes up to 80% of the material that is used. Its low mass density, high specific strength and good elastic stiffness, excellent ductility and high corrosion resistance, modest price and very good manufacturability (extrusion, rolling, bending, welding, repairability, additive manufacturing) render aluminium alloys the most important aerospace materials.

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Metallurgical Materials Science and Alloy Design ...

The Aluminium Automotive Manual aims at providing technical information on aluminium automotive applications. The information is compiled into PDF documents which are classified into six major categories: applications, design, materials, products, manufacturing technologies and joining techniques.

Aluminium Automotive Manual - European Aluminium

Lightweighting design is an extensively explored and utilized concept in many industries, especially in aerospace applications, and is associated with the green aviation concept. The contribution of aviation to global warming phenomena and environmental pollution has led to ongoing efforts for the reduction of aviation emissions. Approaches to achieve this target include increasing energy ...

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Lightweighting in Aerospace Component and System Design ...

Data from The Aluminum Association, Structural Design Manual, 1994. Note: All properties are in ksi. TS is tensile strength, YS is yield strength, and US is ultimate strength. FIGURE 8.1: Stress-strain curve. Toughness The accepted measure of toughness of aluminum alloys is fracture toughness. Most high

Sharp, M.L. Aluminum Structures Structural Engineering ...

And Boeing's 787 Dreamliner, which is often described as a composite aircraft, contains 20% aluminum (by weight) which includes aluminum 7085, a relatively new aluminum alloy.

Basics of Aerospace Materials: Aluminum ... - Machine Design

Aluminum alloys have been the primary material of choice for

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structural components of aircraft since about 1930. Although polymer matrix composites are being used extensively in high-performance military aircraft and are being specified for some applications in modern commercial aircraft, aluminum alloys are the overwhelming choice for the fuselage, wing, and supporting structure of commercial ...

Application of modern aluminum alloys to aircraft ...

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The use of aluminum in a new design could reduce many of the headaches Boeing has experienced in the development of the 787. But the new metal has yet to be evaluated by the airplane makers.

New Aircraft Aluminum Set To Compete With Composites | WIRED

Many landing gear, flap track, flap carriage, and other flap actuating components on Boeing airplanes are made of high-strength alloy steels, such as 300M, Hy-Tuf, 4340M, and 4330M. These components provide structural benefits (e.g., reliable, durable design) and strength characteristics that permit an efficient use of available airframe space.

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