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structures. The many chapter authors are experts in their fields and collectively represent enormous expertise based on extensive practical experience and theoretical knowledge of composites relevant to aircraft structures.

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The main materials used in aerospace composite structures are carbon- and glass-fibre reinforced plastic. They have several advantages over traditional aluminium alloys. As carbon composites are, in general, only 60% of the density of aluminium, they provide a much better strength-to-weight ratio than metals: sometimes by as much as 20%.

New materials and structural weight saving : Aviation ...

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In aircraft design, engineers to lower the weight of materials as compared to high strength. Here comes a specific term in materials, i.e. composite materials. Composite materials are high in strength to weight ratio. Composites are a combination of two or more constituent materials with significantly different physical and chemical properties.

## 9 Interesting Facts to Know About Aircraft Composite Materials

Low-Cost Composite Materials and Structures for Aircraft Applications A survey of current applications of composite materials and structures in military, transport and General Aviation aircraft is presented to assess the maturity of composites technology, and the payoffs realized.

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These materials have the additional advantage in military technology of having a low observable (stealth) quality to radar. Some aircraft of composite materials began to appear in the late 1930s and 1940s; normally these were plastic-impregnated wood materials, the most famous (and largest) example of which is the Duramold construction of the eight-engine Hughes flying boat. A few production aircraft also used the Duramold construction materials and methods.

Airplane - Materials and construction | Britannica

While CFRPs represent the lion's share of composite material in both cabin and functional components, and honeycomb materials provide effective and lightweight

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internal structural components, next-generation materials include ceramic-matrix composites (CMCs), which are emerging in practical use after decades of testing.

Aerospace materials – past, present, and future ...

Composite Materials for Aircraft Structures:2nd (Second) edition Hardcover – October 15, 2004 by S. Dutton A. A. Baker, Donald Kelly, Stuart Dutton, D. Kelly (Author) 3.5 out of 5 stars 6 ratings See all formats and editions

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