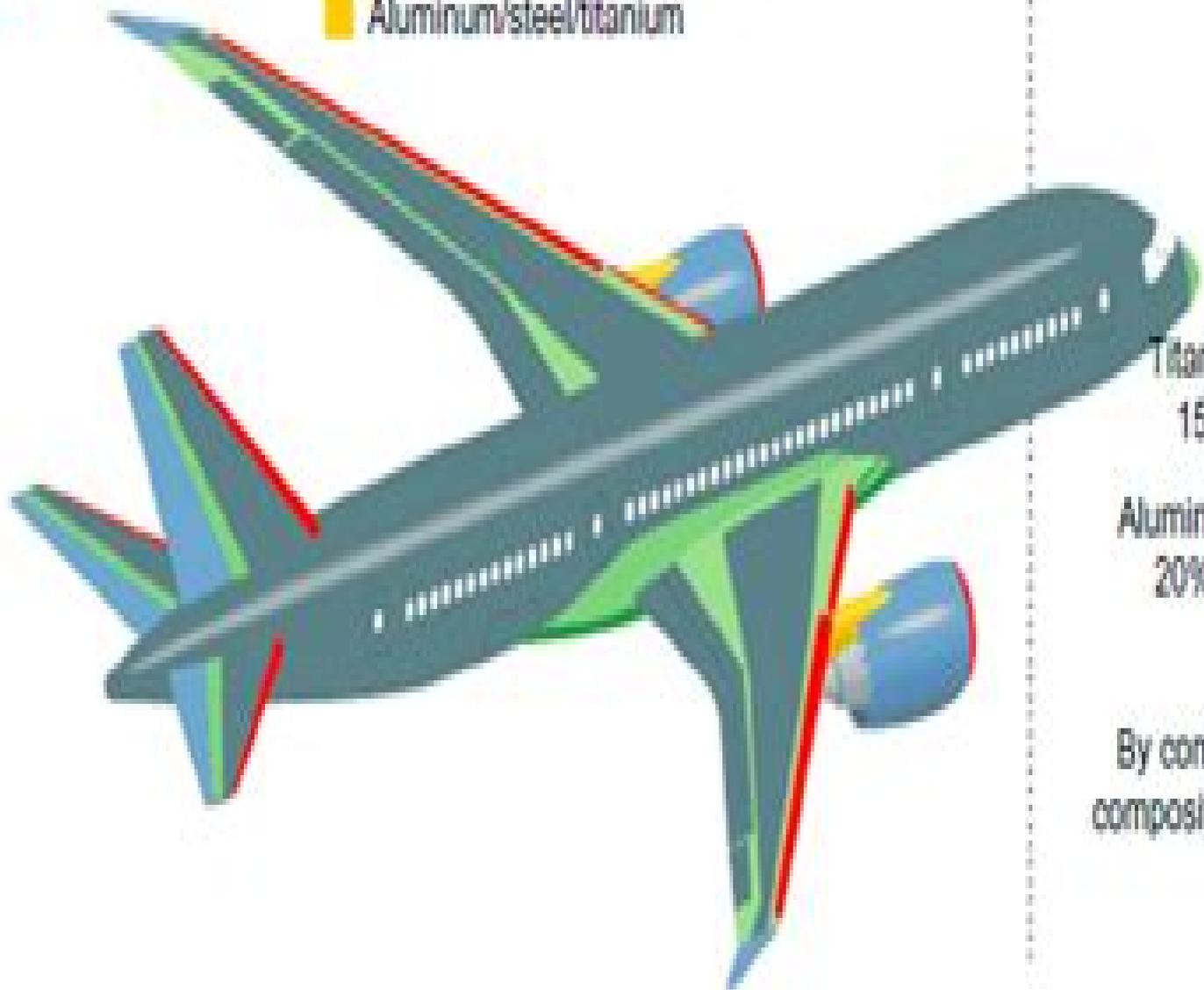
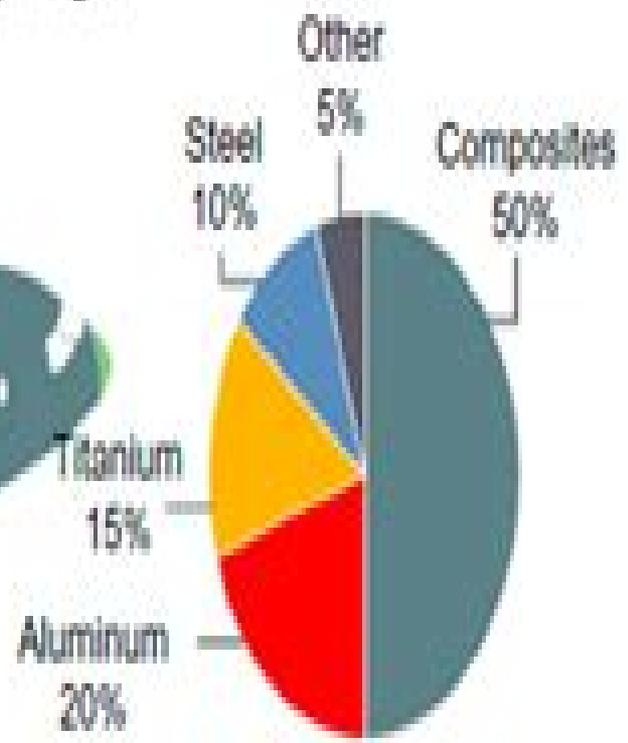


Materials used in 787 body

- Fiberglass
- Carbon laminate composite
- Aluminum
- Carbon sandwich composite
- Aluminum/steel/titanium



Total materials used By weight



By comparison, the 777 uses 12% composites and 50 percent aluminum.

Aircraft Materials And Analysis

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Aircraft Materials And Analysis:

Aircraft Materials and Analysis Tariq Siddiqui,2014-12-06 Complete coverage of aircraft design manufacturing and maintenance Aircraft Materials and Analysis addresses aircraft design mechanical and structural factors in aviation flight loads structural integrity stresses properties of materials compression bending and aircraft fatigue Detailed analysis of the failure process is provided This authoritative guide examines materials used in aircraft construction such as aluminum steel glass composite rubber and carbon fiber Maintenance procedures for corrosion and aging aircraft are discussed and methods of inspection such as nondestructive testing and nondestructive inspection are described Accident investigation case studies review aircraft design material behavior NTSB findings safety stress factors and human factor involvement End of chapter questions reinforce the topics covered in this practical resource Aircraft Materials and Analysis covers The aircraft standards for design structural integrity and system safety Aircraft materials Loads on the aircraft Stress analysis Torsion compression and bending loads Aircraft riveted joints and pressure vessels Heat treatments of metals Aircraft fatigue aircraft material fatigue Aircraft corrosion Dynamic stress temperature stress and experimental methods Composites Nondestructive Testing NDT Aviation maintenance management Case studies and human factors *Analysis of Aluminum Alloy Fractures in Aircraft Materials* Terrence W. Heaslip,International Society of Air Safety Investigators,1980 **Practical Analysis of Aircraft Composites** Brian Esp,2017-10-28 Generation, Acquisition and Analysis of Machining Data for Aircraft Materials and Study of Wear While Machining These Materials Thomas Jeyaseelan,1985 **Scientific and Technical Aerospace Reports** ,1990 **Aviation Week & Space Technology** ,1917 Includes a mid December issue called Buyer guide edition **Metallic Materials Properties Development and Standardization (MMPDS): Chapters 1-4** ,2003 **Aeronautics** ,1917 **The Analyst** ,1930 Vols for 1876 June 1954 include Proceedings of the society Iron and Steel Industry and British Foundryman ,1930 **Annual Book of ASTM Standards** ASTM International,American Society for Testing and Materials,2004 *Engineering Index Annual* ,1930 **Aviation and Aeronautical Engineering** ,1917 **Bulletin** American Society for Testing Materials,1930 Vol 12 includes under the same cover the society s year book for 1912 **Airplane Welding** John Burlin Johnson,1929 **Inquiry Into Operations of the United States Air Services** United States. Congress. House. Select Committee of Inquiry into Operations of the United States Air Services,1925 **Annual Report** National Physical Laboratory (Great Britain),1918 *Report* National Physical Laboratory (Great Britain). Metrology Centre,1916 Aviation Week, Including Space Technology ,1930 Includes a mid December issue called Buyer guide edition **The Slipstream** ,1920

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