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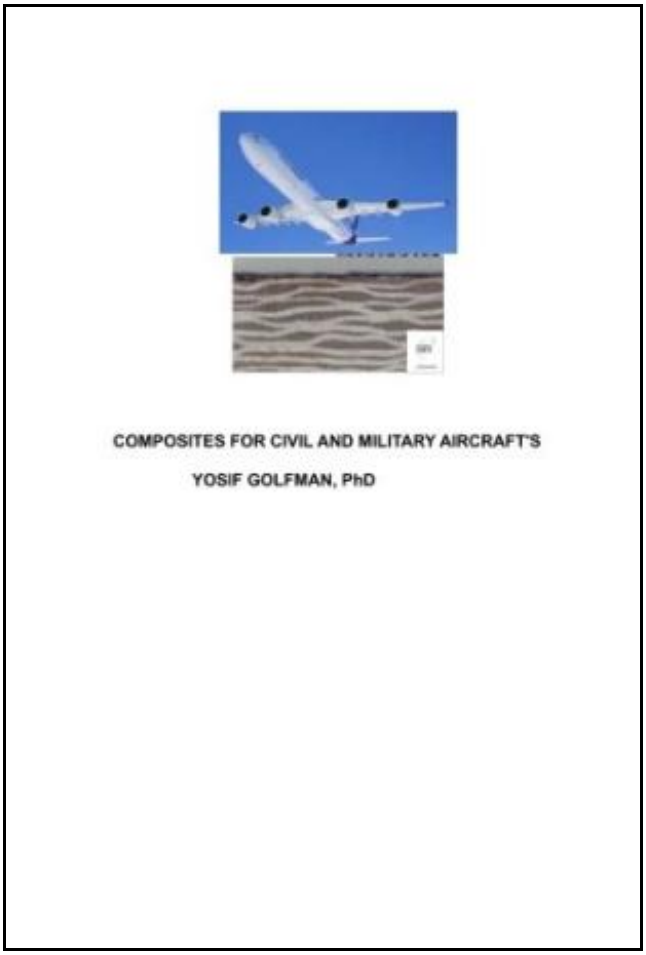

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COMPOSITES FOR CIVIL AND MILITARY AIRCRAFT S (PAPERBACK)

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Createspace, United States, 2013. Paperback. Book Condition: New. Large Print. 226 x 150 mm. Language: English . Brand New Book ***** Print on Demand *****.Brief Description Lightweight and fatigue strength of composites boost applications in Civil and Military Aircraft s. Boeing 787 Dream Lines and Civil Airbus A350 C-17 Transport uses 50 composites. Carbon fiber composites have a high strength-to -weight ratio than traditional aircraft and carbon fiber in 2.5 times lighter than titanium. Composites are used on fuselage, wings, tail, doors and interior. Civil Boeing with composites has a sonic properties and Bell Boeing V-22 Osprey military transport uses also 50 composites. Civil Airbus A350 use composite panels on a frame and C-17 transport has over 16,000 lb(7300kg) of structural composites. Carbon fiber, unlike metals does not visibly show cracks and fatigue, prompting concerns about safety risks. The develop the biggest, fastest 3D printer for making titanium aircraft and satellite components is task for feature and may be include in program modernization F-35 Lockheed Martin Inc. Titanium has been used for several years in the manufacturing of aircraft components, primarily via machining. Print 3D Technologies use titanium wires Ti-6AL-4V which melt by laser CO2 and can create all parts of aircraft s. This book consist from fourteen parts: in part 1 we investigate application civil and military aircraft s; part 2 devote of wing hybrid technology, part 3 consists of braiding carbon fiber fuselage, wings hybrid technology was shown in chapter 4; composite braided cockpit represents in part 5, technological printing process we investigate in ch.6, 3D printing process for Aviation parts and design modeling for prototyping we conform in part 7; Part 8 devote strength components, physical and mechanical properties titanium alloys, like Ti-Al-4V and physical and mechanical properties ceramics, like SiC. Chapter 9 devote for dynamic stability...

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