

1. Record Nr.	UNINA9910698830703321
Autore	Chiu David Y. T
Titolo	Development of a profiling scanner [[electronic resource] /] / by David Y.T. Chiu and Troy Alexander
Pubbl/distr/stampa	Adelphi, MD : , : Army Research Laboratory, , [2008]
Descrizione fisica	iv, 32 pages : digital, PDF file
Collana	ARL-TR ; ; 4573
Altri autori (Persone)	AlexanderTroy
Soggetti	Scanning systems Microcomputers - Data processing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from title screen (viewed June 15, 2009). "September 2008."

2. Record Nr.	UNINA9910813791603321
Autore	Elhajjar Rani
Titolo	Composite structures : effects of defects // Rani Elhajjar, University of Wisconsin, Milwaukee, Wisconsin, Peter Grant, Independent Aviation & Aerospace Professional, Medford, Oregon, Cindy Ashforth, Federal Aviation Administration, Seattle, Washington
Pubbl/distr/stampa	Hoboken, NJ : , : Wiley, , 2019
ISBN	1-118-99772-7 1-118-99773-5 1-118-99771-9
Descrizione fisica	1 online resource (237 pages)
Collana	THEi Wiley ebooks
Disciplina	624.1/8
Soggetti	Composite construction Composite materials - Testing Product design
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Characteristics of composites -- Design methodology and regulatory requirements -- Material, manufacturing and service defects -- Inspection methods -- Effects of defects - design values and statistical considerations -- Selected case studies in effects of defects.
Sommario/riassunto	"About the topic/technology Given the current and projected growth of composite material use, there is surprisingly limited information available for readers to understand how to handle defects in manufacturing that are likely to be encountered. The use of composite material is projected to continue its growth in several areas. In the automotive industry it is driven by the efforts to reduce vehicle weight to achieve better fuel efficiency and to improve safety. Similar efforts to reduce weight will continue the growth of composites in the aerospace field to provide structural parts with similar strength as metallic parts but with significantly reduced weight. Future aircraft in commercial and military fields will likely continue to use large amounts of carbon-fiber based components. Wind energy sector increasing the size of wind turbine blades is driving the demand for high performance composites

due to their improved stiffness and tensile strength. Market description (Please include secondary markets) P&R Tier 2 Primary: Professional engineers in mechanical engineering, automotive engineering, aerospace engineering, and energy engineering as well as industry researchers and academic researchers. Secondary: Graduate engineering students in mechanical engineering, aerospace, engineering design"-- Provided by publisher.
