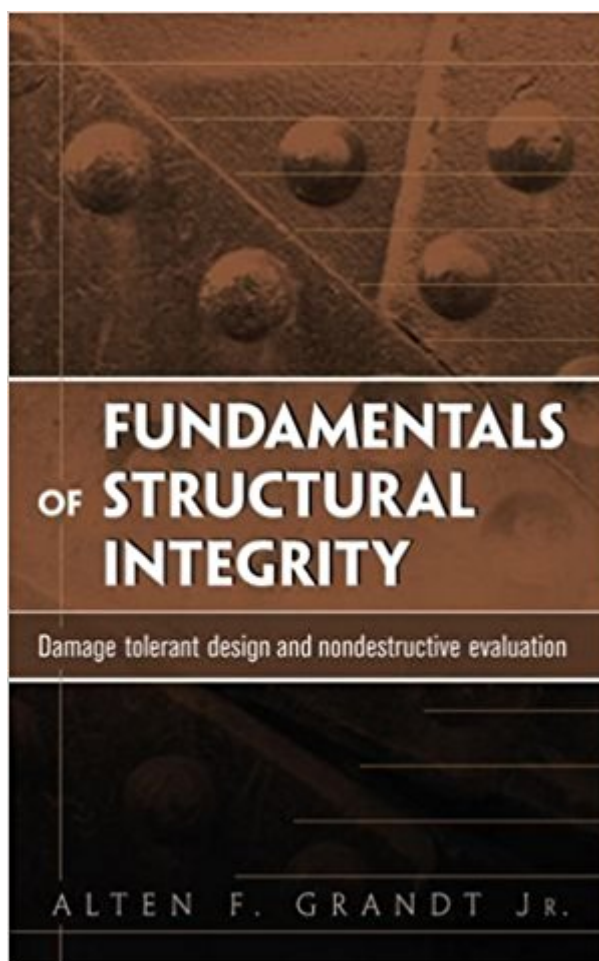


The book was found

Fundamentals Of Structural Integrity: Damage Tolerant Design And Nondestructive Evaluation



Synopsis

Discusses applications of failures and evaluation techniques to a variety of industries. * Presents a unified approach using two key elements of structural design.

Book Information

Hardcover: 560 pages

Publisher: Wiley-Interscience; 1 edition (November 3, 2003)

Language: English

ISBN-10: 0471214590

ISBN-13: 978-0471214595

Product Dimensions: 6.4 x 1.2 x 9.5 inches

Shipping Weight: 2.1 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 3 customer reviews

Best Sellers Rank: #434,277 in Books (See Top 100 in Books) #19 in Books > Engineering & Transportation > Engineering > Civil & Environmental > Structural Dynamics #27 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Testing #69 in Books > Engineering & Transportation > Engineering > Aerospace > Aircraft Design & Construction

Customer Reviews

A unique presentation of two key elements of structural design Both damage tolerant design and nondestructive inspection are essential for achieving structural integrity, yet these interrelated disciplines are generally studied independently and implemented by different individuals within an organization. Fundamentals of Structural Integrity is an unparalleled presentation of both of these technologies in a single volume that points out the many interconnected details that must function in concert to assure the prevention of structural failures. This groundbreaking volume introduces the concept of structural integrity and explains how it is achieved. It provides examples of threats to structural integrity, reviews structural certification policies, and presents detailed coverage of damage tolerant design procedures and nondestructive inspection methods. Outstanding features of this comprehensive guide include: In-depth discussions of crack tip plasticity issues and fatigue crack growth Methods for obtaining stress intensity factor solutions Procedures for anticipating service-induced fatigue and corrosion damage In-depth presentations of all major nondestructive inspection techniques Coverage of inspection intervals and residual strength U.S. Air Force AFGROW life prediction software included on the associated Web site Fundamentals of Structural

Integrity is an indispensable resource for mechanical, materials, civil, and aerospace engineers charged with researching, designing, or maintaining safe operation of high-performance structures.

ALTEN F. GRANDT JR. is the Raisbeck Engineering Distinguished Professor of Engineering and Technology Integration at Purdue University's School of Aeronautics and Astronautics.

I had the privilege to attend Professor Grandt's course this past spring ('17), excellent teacher, very knowledgeable, great text. Highly recommend for any professionals looking to review NDT methodology and application to design.

Exactly what I was looking for

If you are in structural integrity business it is a must to read. For mechanical Engineers it should be a text to the most important NDT and failure analysis.

[Download to continue reading...](#)

Fundamentals of Structural Integrity: Damage Tolerant Design and Nondestructive Evaluation
Nondestructive Evaluation: A Tool in Design, Manufacturing and Service Governing the Climate Change Regime: Institutional Integrity and Integrity Systems (Law, Ethics and Governance)
Self-Checking and Fault-Tolerant Digital Design (The Morgan Kaufmann Series in Computer Architecture and Design) Skew-Tolerant Circuit Design (The Morgan Kaufmann Series in Computer Architecture and Design) Handbook of Digital Techniques for High-Speed Design: Design Examples, Signaling and Memory Technologies, Fiber Optics, Modeling, and Simulation to Ensure Signal Integrity Introduction to Nondestructive Testing: A Training Guide Nondestructive Testing: Radiography, Ultrasonics, Liquid Penetrant, Magnetic Particle, Eddy Current (#06390G) iGen: Why Today's Super-Connected Kids Are Growing Up Less Rebellious, More Tolerant, Less Happy--and Completely Unprepared for Adulthood--and What That Means for the Rest of Us Plastic Injection Molding: Mold Design and Construction Fundamentals (Fundamentals of Injection Molding) (2673) (Fundamentals of injection molding series) Plastic Injection Molding: Product Design & Material Selection Fundamentals (Vol II: Fundamentals of Injection Molding) (Fundamentals of injection molding series) Gardening the Mediterranean Way: How to Create a Waterwise, Drought-Tolerant Garden Waterwise Plants for Sustainable Gardens: 200 Drought-Tolerant Choices for all Climates Gardening with Hardy Succulents for Year-Round Beauty: Drought-Tolerant, Easy-Care Combos for Cold Climates Structural Dynamics of Earthquake Engineering: Theory and

Application Using Mathematica and Matlab (Woodhead Publishing Series in Civil and Structural Engineering) Strengthening of Reinforced Concrete Structures: Using Externally-Bonded Frp Composites in Structural and Civil Engineering (Woodhead Publishing Series in Civil and Structural Engineering) Graphic Design Success: Over 100 Tips for Beginners in Graphic Design: Graphic Design Basics for Beginners, Save Time and Jump Start Your Success (graphic ... graphic design beginner, design skills) Structural Analysis and Synthesis: A Laboratory Course in Structural Geology Structural Analysis and Synthesis: A Laboratory Course in Structural Geology 3rd (third) edition by Rowland, Stehen M., Duebendorfer, Ernest M., Schiefelbein, I published by Wiley-Blackwell (2007) [Spiral-bound] Structural Analysis and Synthesis: A Laboratory Course in Structural Geology, 2nd Edition

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)