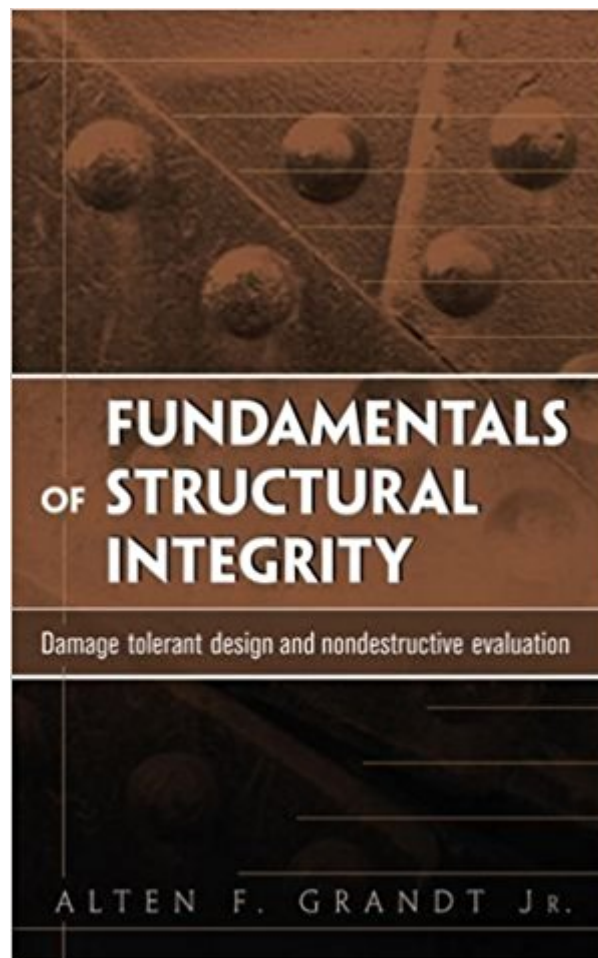




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Fundamentals Of Structural Integrity: Damage Tolerant Design And Nondestructive Evaluation



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

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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.

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