



Solid mechanics research for quantitative nondestructive evaluation: Proceedings of the ONR Symposium on Solid Mechanics Research for QNDE, Northwestern University, Evanston, IL, September 18-20, 1985 (Paperback)

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involves first identifying the various scales at which material and structural response and failure
occur. Within each level of behavior we address the basic mechanical phenomena for which a clear
physical description is not available. ONR s program emphasizes experimental research to identify
and quantify the interacting behavior and response mechanisms. Theoretical and computational
approaches are developed to explain the details of the physical processes and to establish the
technology necessary to control the thermomechanical behavior of materials and structures.
Within the Department of Defense, it is a natural evolution that all new systems must generally
operate in more demanding environments than the systems they replace. Thus, structural
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