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A new nondestructive testing technique for surface-breaking microcracks in nuclear reactor components based on laser-ultrasonics is developed. Surface acoustic wave generated by Q-switched Nd:YAG laser and detected by frequency-stabilized long pulse laser coupled with confocal Fabry-Perot interferometer is used to detect and size the cracks. A frequency-domain signal processing is developed to realize accurate sizing capability. The laser-ultrasonic testing allows the detection of surface-breaking microcrack having a depth of less than 0.1 mm, and the measurement of their depth with an accuracy of 0.2 mm when the depth exceeds 0.5 mm including stress corrosion cracking. The laser-ultrasonic testing system combined with laser peening system, which is another laser-based maintenance technology to improve surface stress, for inner surface of small diameter tube is developed. The generation laser in the laser-ultrasonic testing system can be identical to the laser source of the laser peening. As an example operation of the system, the system firstly works as the laser-ultrasonic testing mode and tests the inner surface of the tube. If no cracks are detected, the system then changes its work mode to the laser peening and improves surface stress to prevent crack initiation. The first nuclear industrial application of the laser-ultrasonic testing system combined with the laser peening was completed in Japanese nuclear power plant in December 2004. A new nondestructive testing technique for surface-breaking microcracks in nuclear reactor components based on laser-ultrasonics is developed. Surface acoustic wave generated by Q-switched Nd:YAG laser and detected by frequency-stabilized long pulse laser coupled with confocal Fabry-Perot interferometer is used to detect and size the cracks. A frequency-domain signal processing is developed to realize accurate sizing capability. The laser-ultrasonic testing allows the detection of surface-breaking microcrack having a depth of less than 0.

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This report describes an experimental program conducted by Sandia National Laboratories, Livermore Lab, and California Institute of Technology to study the behavior of structural metal in a stressed state under an impulsive stress load. The purpose of this program was to study the effects of stress level, strain rate, and temperature on the damage and failure mechanisms of single-mode and multi-mode solid state carbon fiber composites. For comparison, specimens made of conventional filament wound carbon fiber composites were also tested. The failure mechanism of the test materials included spallation, delamination, and matrix cracking. In the next set of experiments, the fracture toughness was tested on the test materials and filament wound composites. For the single-mode composites, the combination of thermal fracture and spallation was the major failure mechanism. On the other hand, the filament wound composites failed through the single mechanism of delamination, which was the major failure mechanism for the multi-mode composites. The fracture toughness of the single-mode and multi-mode composites was better than that of filament wound composites. The single-mode composites also had better resistance to the impact damage. The loss of stiffness of the single-mode composites was less than that of the multi-mode composites. The experiments described in this report are consistent with a previously published theory of the damage mechanism of carbon fiber composites. Furthermore, the results are also qualitatively consistent with effects predicted by an established lattice damage model. Some of the effects of fiber orientation, thermal annealing, and substructure were studied. This study provides a good framework for the understanding and prediction of the behavior of structural composites as well as for the design of carbon fiber composites.less 5ec8ef588b

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