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7.11.1 VALIDITY. Fatigue damage in the form of cracks which reduce the load-bearing cross section gives rise to a nonlinear (elastic) compliance which superimposes on the intrinsic nonlinear elastic behavior. In this article, the theoretical principles for the assessment of fatigue damage (and crack propagation), based on the measurement of nonlinear compliance effects and on complementary data obtained from parallel replica studies of surface cracks, will be outlined.

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Fatigue damage in a system with one degree of freedom is one of the two criteria applied when comparing the severity of vibratory environments. The same criterion is also used for a specification representing the effects produced by the set of vibrations imposed in a real environment.

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Fatigue damage develops as a result exposure to of cyclic stresses for an extended period of time. It 's worthy to note that numerous classes of components (e.g. rotating equipment and pressure reduction valves) designed for alternating mechanical stresses are not usually subject to fatigue failure unless damaged by some other mechanism (e.g. foreign object impact damage or corrosion).

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