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Inelastic response. The above mode of expressing $[\sigma]$ in terms of $[S]$ is valid for solids showing viscoelastic or plastic response as well, except that $[S]$ is then to be regarded not only as a function of the present $[EM]$ and θ but also as dependent on the prior history of both. Assuming that such materials show elastic response to sudden stress

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can be divided into three major categories: two-dimensional solids and structures, three-dimensional solids and structures and structures consisting of other structural members, such as beams and plates. 2.2.1 Dynamic inelastic analysis of 2-D solids and structures

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continuum solutions to make
mathematical sense and provides a
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As noted above, for small deformations, most elastic materials such as springs exhibit linear elasticity and can be described by a linear relation between the stress and strain. This relationship is known as Hooke's law. A geometry-

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dependent version of the idea was first formulated by Robert Hooke in 1675 as a Latin anagram, "ceiinosstuv". He published the answer in 1678: "Ut tensio, sic vis ..."

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