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Stress-strain analysis (or stress analysis) is an engineering discipline that uses many methods to determine the

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Strain is the response of a system to an applied stress. When a material is loaded with a force, it produces a stress, which then causes a material to deform. Engineering strain is defined as the amount of deformation in the direction of the applied force divided by the initial length of the material.

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- Stress and strain: These are size-independent measures of load and displacement, respectively.
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polymer) exhibit non-linear stress-strain relations directly upon being loaded externally.

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