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macrostructural  
behaviour without  
consideration of local  
notch effects.

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(or stress analysis) is  
an engineering  
discipline that uses  
many methods to  
determine the stresses  
and strains in materials  
and structures  
subjected to forces. In

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continuum mechanics , stress is a physical quantity that expresses the internal forces that neighboring particles of a continuous material exert on each other, while strain is the measure of the deformation of the material.

## **Stress-strain analysis - Wikipedia**

Free online structural analysis software for PC, Android and iPad

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1. Structural Stress Analysis by Enforcing Equilibrium Conditions and solving for  $\sigma_B$ , and  $\sigma_M$ . A finite element model of a structure can be used to retrieve either stress outputs or nodal forces and displacements of the structure.

## **Structural stress analysis - Battelle Memorial Institute**

Structural analysis employs the fields of

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applied mechanics, materials science and applied mathematics to compute a structure's deformations, internal forces, stresses, support reactions, accelerations, and stability. The results of the analysis are used to verify a structure's fitness for use, often precluding physical tests.

**Structural analysis -  
Wikipedia**

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In stress analysis, a force can be categorized as either external or internal. External forces include, for example, applied surface loads, force of gravity and support reactions, and the internal forces are the resisting forces generated within loaded structural elements. Typical examples of applied external forces include the following:

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