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Mechanical properties of matter. The first constitutive equation (constitutive law) was developed by Robert Hooke and is known as Hooke's law. It deals with the case of linear elastic materials. Following this discovery, this type of equation, often called a "stress-strain relation" in this example, but also called a

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"constitutive assumption" or an "equation of state" was commonly used.

## **Constitutive equation - Wikipedia**

A History of the Theory of Elasticity and of the Strength of Materials from Galilei to the Present Time , , , , . . Advances in constitutive laws for engineering materials, Volume 1 proceedings of International Conference on Constitutive Laws for Engineering Materials, August 11-13, 1989, Chongqing, China,

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Unlike deformation measures; kinetics; and conservation laws, a constitutive law cannot be calculated or predicted from first principles, except for a few very special cases such as small deformations of crystalline materials, where elastic properties can be estimated using ab-initio techniques that approximate quantum mechanical level atomic scale interactions in some way.

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large variety of engineering materials. The pertinent constitutive relations are based heavily on thermodynamics, in particular on the second law expressed as the constraint of non-negative dissipation. Volume I presents the general concepts of constitutive modeling and computational techniques within a setting of geometrically linear theory.

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These properties, when paired with appropriate constitutive models, traditionally serve as the basis for any engineering-level mechanics of materials analysis. Modern methodologies, however, tend to replace this phenomenological approach by recourse to a combination of homogenization schemes with micromechanical models.



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