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The Timoshenko beam theory was developed by Stephen Timoshenko early in the 20th century. The model takes into account shear deformation and rotational bending effects, making it suitable for describing the behaviour of thick beams, sandwich composite beams, or beams subject to high-frequency excitation when the wavelength approaches the thickness of the beam.

Timoshenko beam theory - Wikipedia

In 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. For example, when a solid vertical bar is supporting an overhead weight, each particle in the bar pushes on the particles immediately below it.

Stress (mechanics) - Wikipedia

In this paper, we present a systematic approach to solving the eigenvalue problems associated with the uniform Timoshenko beam model. Properties of the natural frequencies and modes are discussed for the pinnedâ€”pinned and cantilever beam, e.g., double eigenvalues, estimates for small and large eigenvalues, significance of dimensionless parameters and remarkable mode shapes.

Natural frequencies and modes of a Timoshenko beam

Recently, there was a big competition announced for rough elastic adhesive contact --- by Martin Muser as organizer. This was published in Tribology Letter, involved the effort of many groups in the world, and finally got even a commentary in Science by Rob Carpick.

a "contact sport" between academics | iMechanica

The International Journal of Engineering Science is not limited to a specific aspect of science and engineering but is instead devoted to a wide range of subfields in the engineering sciences. While it encourages a broad spectrum of contribution in the engineering sciences, its core interest lies in issues concerning material modeling and response.

International Journal of Engineering Science - Elsevier

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The past few decades have seen outstanding advances in the use of composite materials in structural applications. There can be little doubt that,...

Composite Structures - Journal - Elsevier

1.. Introduction In this paper we introduce a new method for the analysis of problems governed by partial differential equations such as, for example, solids, structures and fluids.

Isogeometric analysis: CAD, finite elements, NURBS, exact

The coupling vibration of the drill string can lead to severe vibration, and this energy boosts the amplitude of the string vibration, increases bending and impacts with the borehole, and leads to the early fatigue of tools and the reduction of bit life.

Nonlinear Model and Qualitative Analysis for Coupled Axial

The relationship varies from 0.5 to 0.577, whether you use Tresca or von Mises criterion. Also, a value of 0.6 (which is an approximation of 0.577) is recommended in Shigley's textbook.

Is there any relationship between shear strength and

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Topic 9: Safety and risk management in oil and gas

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