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The Timoshenko-Ehrenfest beam theory was

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developed by Stephen Timoshenko and Paul Ehrenfest 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. The resulting equation is of 4th order but, unlike Euler–Bernoulli beam theory, there is also a second ...

~~Timoshenko–Ehrenfest beam theory — Wikipedia~~

The solution is independent of the thickness  $t$  and the Poisson's ratio  $\nu$ . The stress in the plug is approximately halve the value that would occur in a completely restrained plug.

Alternative Answer to Problem 3d

(displacement method) When we substitute (1) and (2) in (4) we find  $u = \frac{a}{EI} \frac{t}{12} (11 + \nu) = - \frac{a}{\nu} - \alpha \nu$ .

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Softcover. Condition: New. 3rd edition. This book provides a comprehensive introduction to the Theory of Elasticity in a simple form as the subject allows together with a compilation of solutions of special problems that are important in engineering practice and design. Table of contents 1. Introduction 2. Plane Stress and Plane Strain 3.

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the fields of displacements and stresses  
according to the theory of elasticity, which  
in general differ from the Bernoulli-Euler  
theory. The exact fields do coincide with the  
conventionally obtained solutions listed in  
Sections 18-23 of the book by Timoshenko and  
Goodier (1982) , and in Chapter II, §10 of  
Szabó (1985) .

~~Enhancement of elementary beam theories in  
order to obtain ...~~

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Stepan Prokofyevich Timoshenko, was a Ukrainian, Russian, and later, an American engineer and academician. He is considered to be the father of modern engineering mechanics. An inventor and one of the pioneering mechanical engineers at the St. Petersburg Polytechnic University. A founding member of the Ukrainian Academy of Sciences, Timoshenko wrote seminal works in the areas of engineering mechanics, elasticity and strength of materials, many of which are still widely used today. Having started

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