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was 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~~
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The solution is
independent of the
thickness t and the
Poisson's ratio ν . 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 a
 $EI u'' + a EI \frac{1}{2} \dot{u} = - a$
 $\nu - \alpha \nu$.

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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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plug. Alternative Answer to Problem 3d (displacement method) When we substitute (1) and (2) in (4) we find $u = \frac{E I \alpha t}{E I (1 + \nu)}$ yields the exact solutions for 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) .
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