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**Nonlinear buckling of symmetrically laminated, cylindrically orthotropic, shallow, conical shells considering shear.** (English) [Zbl 0860.73021](#)

[Int. J. Non-Linear Mech.](#) 31, No. 1, 89-99 (1996).

Summary: A theory for nonlinear bending of symmetrically laminated, cylindrically orthotropic, shallow, conical shells subjected to an axisymmetrically distributed load including transverse shear effects is established. By means of this theory and the modified iteration method, the analytical solution of the critical buckling pressure for a symmetrically laminated, cylindrically orthotropic, shallow, conical shell with a rigidly clamped edge under the action of uniform lateral pressure is obtained.

**MSC:**

[74G60](#) Bifurcation and buckling

[74K15](#) Membranes

[74E30](#) Composite and mixture properties

Cited in 4 Documents

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[nonlinear bending](#); [modified iteration method](#); [analytical solution](#); [critical buckling pressure](#)

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