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The Shear Coefficient in Timoshenkoâ ™s Beam Theory

G. R. Cowper

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Abstract

The equations of Timoshenkoâ ™s beam theory are derived by integration of the equations of thre
dimensional elasticity theory. A new formula for the shear coefficient comes out of the derivatic
Numerical values of the shear coefficient are presented and compared with values obtained by oth
writers.

Topics: Shear (Mechanics) , Equations , Elasticity

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