The use of polygonal elements with more than four sides can provide flexibility and better accuracy. A brief overview of different cubature rules over arbitrary polygons is given. Polygonal finite elements with Wachspress interpolants are employed to study the response of plates based on first order shear deformation theory. A technique is outlined to suppress shear locking.

**APPLICATION TO REISSNER-MINDLIN PLATES**

\[ u(x, y, z, t) = u_\omega(x, y, z, t) + N \theta \]  
\[ v(x, y, z, t) = v_\omega(x, y, z, t) + N \theta_y \]  
\[ w(x, y, z, t) = w_\omega(x, y, z, t) \]

**REFERENCES**


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