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symmetric
compressible flow in
cylindrical coordinates
(see Section 5.1.81, the
continuity equation is
given by (5.156) $\frac{1}{r} \frac{d}{dr} (r u_r) + \frac{1}{r} \frac{d}{dz} (r u_z) = 0$ and the
stream function is
defined by (5.157) $u_r = -\frac{1}{r} \frac{d\psi}{dz}$, $u_z = \frac{1}{r} \frac{d\psi}{dr}$
For the case of 3-D
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