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axially symmetric compressible flow in cylindrical coordinates

(see Section 5.1.81, the continuity equation is given by $\frac{1}{r} \frac{d}{dr} (r u_r) + \frac{d}{dz} u_z = 0$ (5.156)

and the stream function is defined by

(5.157) $u_r = -\frac{1}{r} \frac{d\psi}{dz}$, $u_z = \frac{d\psi}{dr}$

For the case of 3-D flows, it is possible to use stream functions to replace the continuity

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