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by (5.155) $u = -a^* dY$ $v = -a^* dX$ For a steady, axially symmetric compressible flow in cylindrical coordinates (see Section 5.1.81, the continuity equation is given by (5.156) $-\frac{1}{r} \frac{d}{dr} (r u) - \frac{d}{dz} (p u) = 0$ and the stream function is defined by (5.157) $\frac{1}{a^*} p u = -r \frac{dz}{dz} = r \frac{dr}{dr}$ For the case of 3-D flows, it is possible to use stream

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