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Computational fluid dynamics - Wikipedia

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323and the stream function is defined
by (5.155) $u = -a^* dY$ $v = -a^* dX$ For a

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

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