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EQUATIONS OF FLUID
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TRANSFER 323 and the
stream function is

defined by (5.155) $u = -a^* \frac{dY}{dX}$
 $v = -a^* \frac{dX}{dY}$ For

a steady, axially
symmetric

compressible flow in
cylindrical coordinates

(see Section 5.1.81, the
continuity equation is
given by

(5.156) $\frac{1}{r} \frac{d}{dr} (r u_r) + \frac{d}{dz} (u_z) = 0$

and the

stream function is
defined by (5.157) $\psi = \frac{1}{a^*} \int u_r dz - \int u_z dr$

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$u_r = -\frac{1}{r} \frac{dz}{dr} p$
 $u_z = r$

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

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Research Interests:
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