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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

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

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Wilkins Aquino. Anderson-Rupp Professor of Mechanical Engineering and Materials Science. Research Interests: Computational mechanics, finite element methods, computational inverse problems and their applications in engineering and biomedicine, scientific computing, computational acoustics and

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acoustics-structure interaction, coupled chemo-mechanics (e.g., electrochemistry-mechanics).

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