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**Fluid Mechanics and**

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mainly focuses on  
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and the  
stream function is

defined by (5.155)  $u =$   
 $-a \cdot dY$   $v = -a \cdot dX$  For

a steady, axially  
symmetric

compressible flow in

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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)  $\frac{1}{r} \frac{d}{dr} (r a^* u_r) = \frac{d}{dz} u_z$   
For the case of 3-D  
flows, it is possible to  
use stream functions to  
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