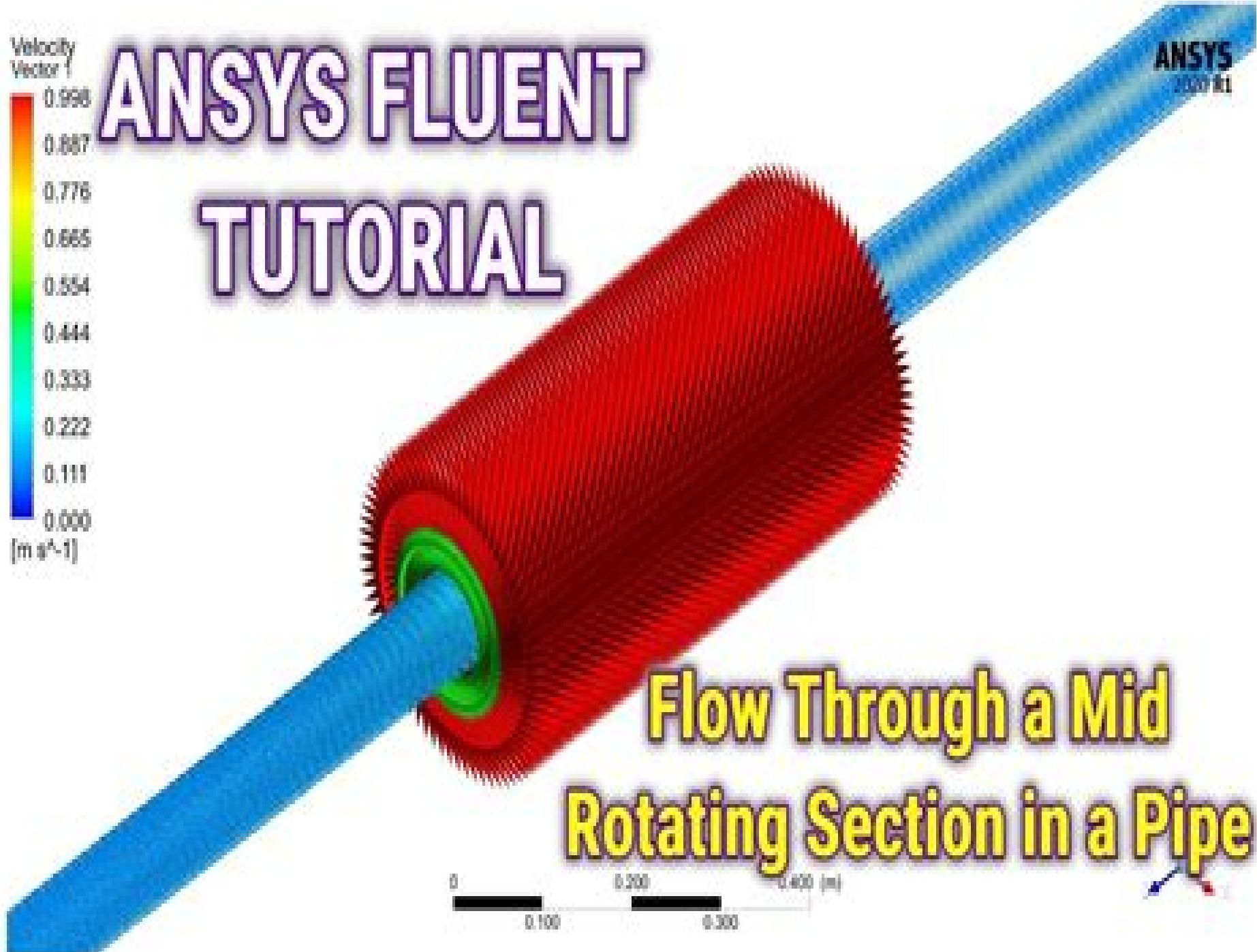


Velocity
Vector
0.998
0.887
0.776
0.665
0.554
0.444
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Flow Through a Mid
Rotating Section in a Pipe

Ansys Fluent Rotating Blade Tutorial

**Pushan Kumar Dutta, Martin
Ricciuti, Ismail Bogrekci, Sumeet
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On the Flow Near an Enclosed Rotating Blade in the Neighborhood of the Ground Tze-Lien Liang, 1970 The flow in the vicinity of an enclosed rotating blade near the ground was studied both analytically and experimentally Experimental results were obtained by making pitot tube traverses across the face of the housing but gave only a qualitative indication of the velocity distribution Tufts of strings were used to locate the flow directions in the vicinity of the ground and the housing The two dimensional potential flow solution was found to yield unreasonable results for this flow configuration due to viscous and rotative effects The three dimensional Navier Stokes equations were solved numerically by using the successive underrelaxation method The results indicated that there is inflow

in the upper part of the entrance region while outflow exists in the lower part The effect of rotation sets up vortex type flows under the housing Variable boundary conditions were applied at the entrance of the housing to simulate speed and geometry changes for the blade The results from the solutions to the Navier Stokes equations were in qualitative agreement with the observed experimental results Abstract leaf 1

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