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Title : Wind Tunnel Testing on an Axisymmetric Body at Angles of Attack Part V - Boundary Layer Profile Measurement on an Axisymmetric Body	Document No. PD FM 8713 Date of issue: April 1987	
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Keywords : Wind Tunnel Testing - Axisymmetric body - Ogive/Blunt Noses - Boundary layer profile measurement		
Abstract : Boundary layer on the cylindrical portion of an Axisymmetric underwater body is measured at three axial locations for the zero incidence of the model. The displacement and momentum thicknesses and hence the shape factor are computed from the measured velocity profiles. The boundary layer is thicker for the case of Blunt nose as compared to ogive nose configuration. Systematic growth of the boundary layer along the length of the model is observed. The effect of free stream velocity on the mean velocity profiles is seen to be negligible. The values of shaper factor obtained in this study indicate that the boundary layer on the model is turbulent one.		