20-P-MOM-DY-31
A m= 1000 kg UFO consists of a single fan that pusher air downwards. The fan moves air at a volumetric rate Q= 1 m ³ /s. Assuming the density of air is p=1.22 kg/m ³ , determine the velocity that the air has to travel at to lift the UFO off the ground.
2111 LQ 7/////////
$ \overline{ZF_{A}} : OF_{A} - ing = 0 : F_{A} = ing $ $ \overline{ZF_{A}} = \frac{dm}{dt} \left(v_{13} - v_{A} \right) \iiint_{B} v_{13} = 0 $
THE PORT OF THE PO
V _A = mg = 8040, 98 m/s