

GAS TURBINES

U = Blade angle

α = Nozzle or inlet gas angle.

θ = Inlet blade angle.

ϕ = Outlet blade angle.

β = Outlet gas angle.

V_1 = Nozzle velocity.

V_{f1} = Inlet relative velocity.

V_{f1} = Inlet velocity of flow

V_2 = Outlet velocity

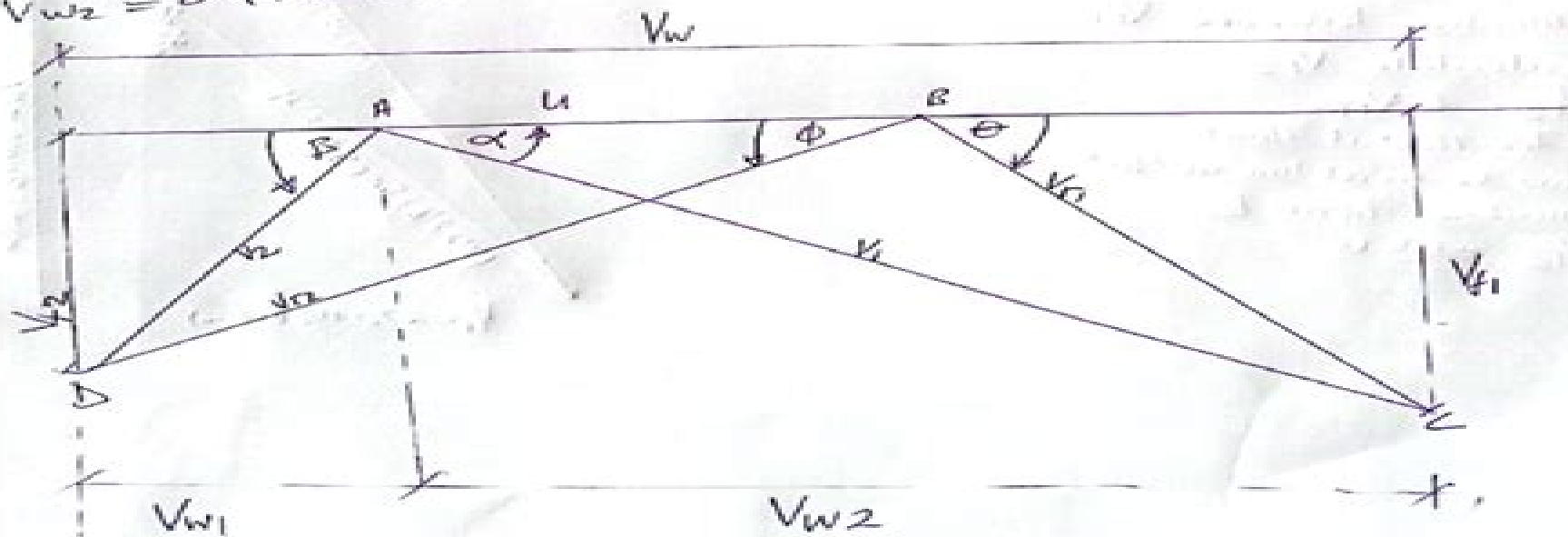
V_{f2} = Outlet relative velocity

V_{f2} = Outlet velocity of flow

V_w = total whirl velocity.

V_{w1} = Inlet whirl velocity

V_{w2} = outlet whirl velocity



$$U = \frac{\pi D N}{60}$$

If there is a friction or coefficient (k)

$$V_{f2} = k V_{f1}$$

AXIAL FLOW

$$\beta = 90^\circ$$

$$\text{Thrust force} = m_f (V_{f1} - V_{f2})$$

$$\text{Power} = m \times U \times V_w$$

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