

# THE CHEAT SHEET

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# Physics Paper 2 Grade 12

**Julia Schneider**



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32 32 2 r c x u  $\beta$   $\beta$   $\beta$  zero reaction stage

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reaction when  $\Lambda = 0$  equation upper reveals that  $h_1 = h_2$  and equation lower that  $\beta_1 = \beta_2$  fifty percent reaction stage  $\beta_2$  and the  
velocity diagram is symmetrical because of symmetrical symmetry it is also

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web the 50 reaction turbine has been used widely and has special significance the velocity diagram of a 50 reaction is symmetrical and for the maximum utilization factor the exit velocity  $v_2$  must be axial figure 2 40 shows a velocity diagram of a 50 reaction turbine and the effect on the utilization factor

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web  $p_1 v_1 u_1 v_2 z_1 q p_2 v_2 u_2 v_2 z_2 w p_1 v_1 u_1 h_1$  enthalpy of steam at inlet  $p_2 v_2 u_2 h_2$  enthalpy of steam at exit  $h_1 v_2 z_1 q h_2 v_2 z_2 w$  generally changes in potential energy are negligible  $z_1 z_2$  if no heat is supplied from the surroundings then  $q = 0$

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web velocity diagram fig 7 velocity diagram of pressure compounded reaction turbine the velocity diagram given in figure 7 gives a detail about the various components of steam velocity and blade velocity symbols have the same meaning as above see also pressure compounding in turbines references

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