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**Judith Giles Morgan, M. Eloise Brown
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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 $p_1 v_1 u_1 v_2^2 g z_1 q p_2 v_2 u_2 v_2^2 g z_2 w p_1 v_1 u_1 h_1$ enthalpy of steam at inlet $p_2 v_2 u_2 h_2$ enthalpy of steam at exit $h_1 v_2^2 g z_1 q h_2 v_2^2 g z_2 w$ 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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