

Introduction To Electrical And Computer Engineering

Steven E. Schwarz, William G. Oldham

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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 v2 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 p1v1 u1 v12 2 gz1 q p2v2 u2 v22 2 gz2 w p1v1 u1 h1 enthalpy of steam at inlet p2v2 u2 h2 enthalpy of steam at exit h1 v12 2 gz1 q h2 v22 2 gz2 w generally changes in potential energy are negligible z1 z2 if no heat is supplied from the surroundings then q 0

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