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Dr. Drosjack Received His B.S. Degree (Mechanical Engineering, 1970) From Carnegie-Mellon University, And His M.S. (1971) And Ph.D. (1974) Degrees (Mechanical Engineering) From The Ohio State University. He Is A Member Of ASME, The Vibration Institute, The Machinery Subcommittee Of The Ethylene Products Committee, Participates In 4th, 2024

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4.2.1 Ideal Centrifugal Flow Machines Simple Analysis Of Centrifugal Pump Or Fan Impeller Dynamics Leads To The Following Theoretical Head Relationship (Potter And Wiggert, 1997):  $H_t = \frac{\omega^2 R_2^2}{2g} - \frac{\omega \cot \beta_2}{2\pi l_2 g} Q$  (4.1) Where  $\omega$  Is The Angular Velocity Of The Impeller,  $\beta_2$  Is The Exit Blade Angle,  $R_2$  Is The 3th, 2024

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Also  $Dh = C_p dT = V dp$  And  $P_v = RT$ . Thus,  $P_{out} P_{in} T_{out} T_{in} C_p R$  (9) Determining  $T_{out}=T_{in}$  From Eq. (8) And Substituting Into Eq. (9) Yields  $P_{out} P_{in} 1 + W_{12} C_p T_{in} C_p R$  (10) Using  $C_p = 1 kJ/kg K$ ,  $T_1 = 288K$  Gives  $P_{out} P_{in} = 2:55$  The Device Studi 3th, 2024

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