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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 Jan 1th, 2024

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Considered An Axial Machine Thereby Neglecting Centrifugal Compressors/turbines Without Justi Cation. Also, One Might Want To Have A More Precise Relation For Design Purposes. For All These Reasons, A More Formal Derivation Is Necessary. Alexis Giauque (LMFA/ECL) Turbomachinery Aer Feb 2th, 2024

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

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XI - 3 Writing The Energy Equation Across The Device And Solving For H $P - H_f$, we Have $H = h_p - h_f = P_2 - P_1 \rho g + V_2^2 - V_1^2 + Z_2 - Z_1$ Where H Is The Net Use Jun 3th, 2024

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