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Chapter 4 Turbomachinery 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):  $H_t = \omega^2 r^2 \frac{2}{g} - \omega \cot \beta^2 \frac{2\pi l}{g} Q$  (4.1) Where  $\omega$  Is The Angular Velocity Of The Impeller,  $\beta^2$  Is The Exit Blade Angle,  $R_2$  Is The

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1.7 Meridional View  
2.1 Relative And Absolute Velocities For A Cyclist  
2.2 Velocity Triangles For An Aircraft Landing  
2.3 Graphical Addition And Subtraction Of Vectors  
2.4 Cascade And Meridional Views Of A Tur Mar 2th, 2024  
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Lecture Notes On Turbomachinery Also  $Dh = Cp dT = V dp$  And  $Pv = RT$ . Thus,  $P_{out} / P_{in} = T_{out} / T_{in} = (C_p R / (C_p R + W^2))$  (9) Determining  $T_{out} = T_{in}$  From Eq. (8) And Substituting Into Eq. (9) Yields  $P_{out} / P_{in} = 1 + W^2 / (2 C_p T_{in})$  (10) Using  $C_p = 1 kJ/kg K$ ,  $T_1 = 288 K$  Gives  $P_{out} / P_{in} = 2:55$  The Device Studi Feb 2th, 2024  
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