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Lecture 30
Analysis of Gas Generator and Staged Combustion Cycles and Introduction to Injectors

In the last class, we derived an expression for the fraction of the total propellant flow into the gas generator as a function of R , the overall mixture ratio that whatever be the oxidizer, which is being supplied to the fuel which had the other parameters as density of the fuel, which we called ρ_f and oxidizer ρ_o might, the pressure increase across the pump Δp , the diameter D , the area A in meter square, the value of C_p and the expansion ratio in the turbine



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What does this expression tell us? Immediately we see f increases as Δp goes up, Δp is the pressure increase across the pump. That means, for a high pressure engine and a high pressure engine will demand a higher value of pressure at the inlet to the engine. Therefore, the pump pressure ratio must be high. Therefore, the fraction of the propellant f , which goes into the gas generator, must be high. If we want to plot, the value of f as a function of Δp across the pump, the trend of the change of Δp

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