

Assignment 4

Brayton Cycle and RAMJET Problems

Here are a few problems to exercise the ideal and real gas turbine cycle. The first one is a rework of the example problem.

1. From Zucker chapter 12 work out examples 12.1 and 12.2 – do not submit. How would example 12.2 change if you used variable specific heats, c_p ?
2. From Zucker chapter 12 work problems 12.1, 12.2, 12.3 and 12.5. Submit 12.3, 12.5
3. From Saarlal Chapter 4 work problems 5, 7, 9, 12, 13, and 15. Submit: 5, 7, 12
4. For extra credit work 9 and 14 (five points per problem toward homework grades).

Let's work some of these in class during the lab days so be ready to talk about them.