Rutgers University
The State University Of New Jersey
College of Engineering
Department of Electrical and Computer Engineering

330:501 <u>Systems Analysis</u>

Problem Set 9

1. **S & B: Chapter 6, Problem 1**
2. **S & B: Chapter 6, Problem 2**
3. **S & B: Chapter 6, Problem 3**
4. **S & B: Chapter 6, Problem 14**
5. **S & B: Chapter 6, Problem 21**
6. A QUIZLIKE QUESTION AGAIN:

   For a linear time-invariant system, are there any conditions on the $\mathbf{A}$ matrix for which complete controllability always implies complete observability? You may assume that both $\mathbf{B}$ and $\mathbf{C}$ are nonzero in at least one component.