

ESTIMATION AND DETECTION THEORY

HOMEWORK # 6:

Please work out the **ten** (10) problems stated below – HVP refers to the text: H. Vincent Poor, *An Introduction to Signal Detection and Estimation* (Second Edition), Springer Texts in Electrical Engineering Springer, New York (NY), 2010. With this in mind, Exercise **II.2** (HVP) refers to Exercise 2 for Chapter II of HVP. Exercises are located at the end of each chapter.

Show work and **explain** reasoning.

1. _____
Solve Exercise **IV.1** (HVP).

2. _____
Solve Exercise **IV.2** (HVP).

3. _____
Solve Exercise **IV.3** (HVP).

4. _____
Solve Exercise **IV.4** (HVP).

5. _____
Solve Exercise **IV.5** (HVP).

6. _____
Solve Exercise **IV.6** (HVP).

7. _____
Solve Exercise **IV.7** (HVP).

8. _____
Solve Exercise **IV.8** (HVP).

9. _____
Solve Exercise **IV.9** (HVP).

10. _____
Solve Exercise **IV.10** (HVP).