



Detection Estimation and Modulation Theory Part III

Harry L Van Trees

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The book covers two major topics: Gaussian signals in noise and the radar/sonar signal processing. The first five chapters discuss the detection of Gaussian signal processes in the presence of Gaussian noise. This type of problem is encountered in digital communication over scatter channels, passive sonar, and radio astronomy. Optimum receivers are derived and their performance evaluated. Binary and M-ary communication are studied. By using a state-variable formulation, complete solutions are obtained for several previously unsolved problems. The next two chapters consider the problem of estimating the parameters of random process. The second half of the book is a comprehensive discussion of signal processing in radar/sonar systems. After formulating the general problem, the optimum detection of slowly-fluctuating point targets in the presence of white and colored noise is studied. Complex state variables are introduced to obtain complete solutions to the colored noise problem. Optimum signal design is studied. Next, parameter estimation for slowly-fluctuating point targets is discussed.

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