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In 1968, Part I of Detection, Estimation, and Modulation Theory [VT681 was published. It turned out to be a reasonably successful book that has been widely used by several generations of engineers. There were thirty printings, but the last printing was in 1996.

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ECE 531: Detection and Estimation Theory

This book and the subsequent volume, Detection, Estimation, and Modulation Theory, Part II, are based on notes prepared for a course entitled "Detection, Estimation, and Modulation Theory," which is taught as a second-level graduate course at M.I.T.

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[PDF] Detection Estimation And Modulation Theory Part I

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Detection and Estimation of Signals in Noise Dr. Robert Schober ... Schober: Signal Detection and Estimation. 3 3.1.4 Equivalent Baseband Representation of Bandpass Stationary Stochastic ... 4.4 Optimum Coherent Detection of Continuous Phase Modulation (CPM) 218

Detection and Estimation of Signals in Noise

modulation schemes can be developed which achieve the rate-distortion bound. Realizable feedback systems

perform very close to the rate-distortion bound. The effects of additive noise in the feedback link depend on the relative noise levels in the two channels. ... DETECTION AND ESTIMATION THEORY) ...

XXVII. DETECTION AND ESTIMATION THEORY*

HARRY L. VAN TREES, ScD, was Professor of Electrical Engineering at Massachusetts Institute of Technology. He served as Chief Scientist of the U.S. Air Force, Chief Scientist of the Defense Communications Agency, and Principle Deputy Assistant Secretary of Defense for C3I.

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In the fourth part we revisit the problems of detection, estimation, and modulation theory at the third level of the hierarchy described in Section 1.1. Looking at the bottom boxes in Figs. 1.4, 1.7, and 1.10, we see that this is the Random Signals in Noise problem.

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The First Edition of Detection, Estimation, and Modulation Theory, Part I, enjoyed a long useful life. However, in the forty-four years since its publication, there have been a large number of changes: 1. The basic detection and estimation theory has remained the same but numerous new results and algorithms have been obtained. 2.

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