

Nonlinear Modulation Theory (Detection, Estimation, and Modulation Theory, Part II)

By Harry L. Van Trees

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Originally published in 1971, Harry Van Trees' *Detection, Estimation, and Modulation Theory, Part II* is one of the classic references in the area of nonlinear modulation theory and analog communication. Highly readable and well organized, it is as valuable today for professionals, researchers, and students interested in the estimation of continuous waveforms as it was over thirty years ago.

Part II focuses on the problem of finding the optimum estimate of a waveform which is embedded in a signal in a nonlinear manner. The following topics are covered in detail:

- Bayesian Cramér-Rao bound on the mean-square estimation error
- Optimum demodulators for frequency-modulation systems
- Phase estimation: the synchronization problem
- Fokker-Planck techniques for nonlinear analysis in the presence of noise
- Optimum angle-modulation systems
- Rate distortion bounds for analog message transmission
- Analog communication over randomly time-varying channels
- State variable analysis procedures

For students in signal processing or professionals looking for a reliable refresher on waveform estimation, *Detection, Estimation, and Modulation Theory, Part II* provides authoritative, practical coverage by one of the most renowned figures in the field. Although most current systems are implemented digitally, the bounds on performance developed in Part II are still applicable.

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Editorial Review

From the Back Cover
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For students in signal processing or professionals looking for a reliable refresher on waveform estimation, Detection, Estimation, and Modulation Theory, Part II provides authoritative, practical coverage by one of the most renowned figures in the field. Although most current systems are implemented digitally, the bounds on performance developed in Part II are still applicable.

About the Author
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 Principal Deputy Assistant Secretary of Defense for C3I. He was President of M/A-Com-Linkabit Government Systems and a cofounder of CommQuest Technologies. He is currently Distinguished Professor of Electrical Engineering and Director of the C3I Center of Excellence at George Mason University, Fairfax, Virginia.

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