

**Van Trees, Harry L.; Bell, Kristine L.; Tian, Zhi**

**Detection estimation and modulation theory. Part I. Detection, estimation, and filtering theory. 2nd. revised and extended ed.** (English) [\[Zbl 1266.94001\]](#)

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Publisher's description: This book is one of the great time-tested classics in the field of signal processing. This new edition has been thoroughly revised and expanded, making it again the most comprehensive and up-to-date treatment of the subject. With a wide range of applications such as radar, sonar, communications, seismology, and biomedical engineering, the important field of detection and estimation has rarely been given such expert treatment as it is here. Highly readable and practically organized, it is as imperative today for professionals, researchers, and students in optimum signal processing as it was over thirty years ago.

For the first edition see [\[Zbl 0202.18002\]](#). For the first edition of Part II see [\[Zbl 0301.93050\]](#).

**MSC:**

- [94-01](#) Introductory exposition (textbooks, tutorial papers, etc.) pertaining to information and communication theory
- [94A12](#) Signal theory (characterization, reconstruction, filtering, etc.)
- [94A13](#) Detection theory in information and communication theory
- [94A14](#) Modulation and demodulation in information and communication theory

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