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Nota di contenuto	Contents; 1 Introduction; 1.1 Topical Outline; 1.2 Possible Approaches; 1.3 Organization; 2 Classical Detection and Estimation Theory; 2.1 Introduction; 2.2 Simple Binary Hypothesis Tests; Decision Criteria; Performance: Receiver Operating Characteristic; 2.3 M Hypotheses; 2.4 Estimation Theory; Random Parameters: Bayes Estimation; Real (Nonrandom) Parameter Estimation; Multiple Parameter Estimation; Summary of Estimation Theory; 2.5 Composite Hypotheses; 2.6 The General Gaussian Problem; Equal Covariance Matrices; Equal Mean Vectors; Summary; 2.7 Performance Bounds and Approximations 2.8 Summary2.9 Problems; References; 3 Representations of Random Processes; 3.1 Introduction; 3.2 Deterministic Functions: Orthogonal Representations; 3.3 Random Process Characterization; Random Processes: Conventional Characterizations; Series Representation of Sample Functions of Random Processes; Gaussian Processes; 3.4 Homogeneous Integral Equations and Eigenfunctions; Rational Spectra;

Sommario/riassunto	Highly readable paperback reprint of one of the great time-tested classics in the field of signal processingTogether with the reprint of Part III and the new Part IV, this will be the most complete treatment of the subject availableAs imperative today as it was when it originally publishedHas important applications in radar, sonar, communications, seismology, biomedical engineering, and astronomyIncludes section summaries, examples, and a large number of problems