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Descrizione fisica	1 online resource (x, 322 pages) : digital, PDF file(s)
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Machine generated contents note: 1. Introduction and motivation to detection and estimation; 2. Review of probability and random processes; 3. Statistical hypothesis testing theory; 4. Detection of deterministic binary signals in Gaussian noises; 5. M-ary detection and classification of deterministic signals; 6. Non-coherent detection; 7. Parameter estimation; 8. Analytical and simulation methods for system performance analysis and design.
Sommario/riassunto	Covering the fundamentals of detection and estimation theory, this systematic guide describes statistical tools that can be used to analyze, design, implement and optimize real-world systems. Detailed derivations of the various statistical methods are provided, ensuring a

deeper understanding of the basics. Packed with practical insights, it uses extensive examples from communication, telecommunication and radar engineering to illustrate how theoretical results are derived and applied in practice. A unique blend of theory and applications and over 80 analytical and computational end-of-chapter problems make this an ideal resource for both graduate students and professional engineers.
