

Yao, Kung, Flavio Lorenzelli, Chiao-En Chen. *Detection and Estimation for Communication and Radar Systems*. New York, NY: Cambridge University Press, 2013, 322 pp. \$85.00 (Hardbound).

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 more than 80 analytical and computational end-of-chapter problems, make this an ideal resource for both graduate students and professional engineers.

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