



Detection and Estimation for Communication and Radar Systems

By Professor Kung Yao, Dr Flavio Lorenzelli, Dr Chiao-En Chen

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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.

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Detection and Estimation for Communication and Radar Systems By Professor Kung Yao, Dr Flavio Lorenzelli, Dr Chiao-En Chen Bibliography

- Sales Rank: #2009721 in Books
- Brand: Brand: Cambridge University Press
- Published on: 2013-02-25
- Original language: English
- Number of items: 1
- Dimensions: 9.72" h x .83" w x 6.85" l, 1.60 pounds
- Binding: Hardcover
- 332 pages

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Editorial Review

About the Author

Kung Yao is a Distinguished Professor in the Electrical Engineering Department at the University of California, Los Angeles. He received his BS (Highest Honors) and PhD from Princeton University. A Life Fellow of the IEEE, he has worked for or consulted for several leading companies, including AT&T Bell Laboratories, TRW, Hughes Aircraft Company and Raytheon.

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