

Cui / Li / Kong

## Radar High-Speed Target Detection via Coherent Integration Transform

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This book offers a systematic presentation of high-speed radar target detection methods using coherent integration transforms, including the signal model, derivations of coherent integration transforms, and definitions of related key concepts. The authors present the mathematical models and design principles necessary to analyze the behavior of each type of coherent integration transforms, and based on this, they introduce and convey new approaches and techniques for designing such transforms, which will help to achieve efficient signal integrators and detectors, especially in the challenging low SNR environments. The book will be of interest to graduate students and engineering professionals in statistical signal processing, signal detection and estimation, and radar signal processing.



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