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research and development.

Radar Expert, Esteemed Author
Gregory L. Charvat on CNN and
CBS Author Gregory L. Charvat
appeared on CNN on March 17,
2014 to discuss whether Malaysia
Airlines Flight 370 might have

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literally flown below the radar. He appeared again on CNN on March 20, 2014 to explain the basics of radar, and he explored the hope and limitations of the technology in Signal Processing for Multistatic Radar Systems: Adaptive

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Waveform Selection, Optimal Geometries and Pseudolinear Tracking Algorithms addresses three important aspects of signal processing for multistatic radar systems, including adaptive waveform selection, optimal

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geometries and pseudolinear tracking algorithms. A key theme of the book is performance optimization for multistatic target tracking and localization via waveform adaptation, geometry optimization and tracking algorithm

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design. Chapters contain detailed mathematical derivations and algorithmic development that are accompanied by simulation examples and associated MATLAB codes. This book is an ideal resource for university researchers

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and industry engineers in radar, radar signal processing and communications engineering. Develops waveform selection algorithms in a multistatic radar setting to optimize target tracking performance Assesses the

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optimality of a given target-sensor geometry and designs optimal geometries for target localization using mobile sensors Gives an understanding of low-complexity and high-performance pseudolinear estimation algorithms for target

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localization and tracking in
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should ideally be self-contained and hands-on, a combination lacking in most radar texts. The first edition of Radar Systems Analysis and Design Using MATLAB® provided such an approach, and the second

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fundamentals and principles of radar along with enough rigorous mathematical derivations to ensure that you gain a deep understanding. The author has extensively revised chapters on radar cross-section

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and polarization, matched filter and radar ambiguity function, and radar wave propagation. He also added information on topics such as PRN codes, multipath and refraction, clutter and MTI processing, and high range

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robust signal processing in
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the robust digital signal
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**vii Preface The basic
principles of radar do not**

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change, but the design and technology of practical radar systems have developed rapidly in recent years. Advances in digital electronics and computing are having a

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major impact, especially
in radar signal processing
and display. I hope that
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such developments, as well
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