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Titolo	Mathematical and Statistical Methods for Multistatic Imaging [[electronic resource] /] / by Habib Ammari, Josselin Garnier, Wenjia Jing, Hyeonbae Kang, Mikyoung Lim, Knut Sølna, Han Wang
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2013
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Descrizione fisica	1 online resource (XVII, 361 p. 61 illus., 47 illus. in color.)
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Disciplina	621.367
Soggetti	Mathematical physics Mathematical Applications in the Physical Sciences
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Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Mathematical and Probabilistic Tools -- Small Volume Expansions and Concept of Generalized Polarization Tensors -- Multistatic Configuration -- Localization and Detection Algorithms -- Dictionary Matching and Tracking Algorithms -- Imaging of Extended Targets -- Invisibility -- Numerical Implementations and Results -- References -- Index.
Sommario/riassunto	This book covers recent mathematical, numerical, and statistical approaches for multistatic imaging of targets with waves at single or multiple frequencies. The waves can be acoustic, elastic or electromagnetic. They are generated by point sources on a transmitter array and measured on a receiver array. An important problem in multistatic imaging is to quantify and understand the trade-offs between data size, computational complexity, signal-to-noise ratio, and resolution. Another fundamental problem is to have a shape representation well suited to solving target imaging problems from multistatic data. In this book the trade-off between resolution and stability when the data are noisy is addressed. Efficient imaging algorithms are provided and their resolution and stability with respect to noise in the measurements analyzed. It also shows that high-order polarization tensors provide an accurate representation of the target. Moreover, a dictionary-matching technique based on new invariants for

the generalized polarization tensors is introduced. Matlab codes for the main algorithms described in this book are provided. Numerical illustrations using these codes in order to highlight the performance and show the limitations of numerical approaches for multistatic imaging are presented.

2. Record Nr.	UNINA990003324980403321
Autore	Keller, Gottfried <1819-1890>
Titolo	Der Landvogt von Greifensee
Pubbl/distr/stampa	Bonn, : Inter Nationes, 1987
Disciplina	791.4372
Locazione	DECLI
Collocazione	832.6 KEL 832.6 KEL /1
Lingua di pubblicazione	Tedesco
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