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Soggetti	Electrical engineering Signal processing Image processing Speech processing systems Computer communication systems Computer mathematics Communications Engineering, Networks Signal, Image and Speech Processing Computer Communication Networks Computational Science and Engineering
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction to Distributed Sensor Networks Region-Guarding Problem in 3-D Areas Expectation-Maximization For Acoustic Source Localization Coordinate-Free Coverage in Sensor Networks via Homology Coverage Assessment and Target Tracking in 3-D Domains A Stochastic Preserving Scheme of Location-Privacy.
Sommario/riassunto	Mathematical Theory of Distributed Sensor Networks demonstrates how mathematical theories can be used to provide distributed sensor modeling and to solve important problems such as coverage hole detection and repair. The book introduces the mathematical and computational structure by discussing what they are, their applications

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and how they differ from traditional systems. The text also explains how mathematics are utilized to provide efficient techniques implementing effective coverage, deployment, transmission, data processing, signal processing, and data protection within distributed sensor networks. Finally, the authors discuss some important challenges facing mathematics to get more incite to the multidisciplinary area of distributed sensor networks.