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Nota di contenuto	Part I WSN for Complex and Mobile-based Applications -- Mobile Object Tracking in Wide Environments Using WSNs -- Expand Mobile WSN Coverage in Harsh Environments -- Hierarchical and Clustering WSN models: Their requirements for Complex Applications -- Extending Homogeneous WSN lifetime in Dynamic Environments Using the Clustering Model -- Optimizing Cluster Head selection in WSN to prolong its existence -- Part II WSN for Secure Data Processing and Live Data Aggregation -- Secure Data Transmission in WSN: An Overview -- An Encryption model for data processing in WSN -- Using Wireless Sensor to Acquire Live Data on a SCADA system, Towards Monitoring File Integrity.
Sommario/riassunto	This book provides a collection of high-quality research works that address broad challenges in both theoretical and applied aspects of dynamic wireless sensor networks (WSNs) for intelligent and smart applications in a variety of environments. It presents the most central concepts associated with Dynamic Wireless Sensor Networks applications, and discusses issues surrounding Wireless Sensor Network Structures for complex and mobile-based applications. The

book subsequently discusses several topics related to energy management in dynamic WSNs, and reviews the steps involved in building a secure and trusted data transmission model using the WSN applications of intelligent environments. Lastly, it discusses the applications of WSNs in live data systems such as SCADA systems. Readers will discover a collection of high-quality research works that address broad challenges in both theoretical and applied aspects of WSNs for intelligent real-life applications. In addition, the book presents original research on the application of a dynamic WSN to solve the problem of energy consumption in a secure WSN during the process of data aggregation and transmission. Written by respected experts in the field, the book will stimulate further efforts in the application of the intelligent WSNs model, helping to solve the problem of data processing in a limited resource WSN-based environment.