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	Nota di contenuto	KNOWLEDGE-BASED RADAR DETECTION, TRACKING, AND CLASSIFICATION; CONTENTS; Contributors; 1 Introduction; 1.1 Organization of the Book; Acknowledgments; References; 2 Cognitive Radar; 2.1 Introduction; 2.2 Cognitive Radar Signal-Processing Cycle; 2.3 Radar-Scene Analysis; 2.3.1 Statistical Modeling of Statistical Representation of Clutter- and Target-Related Information; 2.4 Bayesian Target Tracking; 2.4.1 One-Step Tracking Prediction; 2.4.2 Tracking Filter; 2.4.3 Tracking Smoother; 2.4.4 Experimental Results: Case Study of Small Target in Sea Clutter 2.4.5 Practical Implications of the Bayesian Target Tracker2.5 Adaptive Radar Illumination; 2.5.1 Simulation Experiments in Support of Adjustable Frequency Modulation; 2.6 Echo-Location in Bats; 2.7

Sommario/riassunto	Discover the technology for the next generation of radar systems Here is the first book that brings together the key concepts essential for the application of Knowledge Based Systems (KBS) to radar detection, tracking, classification, and scheduling. The book highlights the latest advances in both KBS and radar signal and data processing, presenting a range of perspectives and innovative results that have set the stage for the next generation of adaptive radar systems. The book begins with a chapter introducing the concept of Knowledge Based (KB) radar. The remaining nine chapters focus