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6-B: List of Symbols; References; Chapter 7. Ionospheric Measurements; 7.1 Introduction; 7.2 Field-Aligned Irregularities; 7.3 Detection of FAI with Passive Radar; 7.4 System Engineering Issues; 7.5 Future Plans; Acknowledgements; References; Chapter 8. Wind Measurements; 8.1 Introduction; 8.2 Existing Radar Methods for Retrieving Vector Winds; 8.3 System Theory 8.4 System Characteristics and Design Trade-Offs 8.5 Test Results; References; Part II. Bistatic Clutter and Signal Processing; Chapter 9. Clutter; 9.1 Introduction and Summary; 9.2 System Parameters and Properties; 9.3 Clutter Cross-Section Per Unit Area; Acknowledgements; Appendix 9-A Aperture Diffraction Theory (Survey); A.1 Summary; A.2 Overview; A.3 Analysis; Appendix 9-B Annotated List of Symbols; References; Chapter 10. Spotlight Synthetic Aperture Radar; 10.1 Bistatic Phase History Data; 10.2 Image Resolution; 10.3 Frequency Sample Data Collection; 10.4 Bistatic SAR Image Formation 10.5 Motion Measurement Errors 10.6 Autofocus; 10.7 Three-Dimensional Surface Reconstruction; 10.8 Properties of Bistatic SAR Images; References; Chapter 11. Adaptive Moving Target Indication; 11.1 Overview; 11.2 Bistatic Moving Target Indication; 11.3 Bistatic Clutter Angle...Doppler Response; 11.4 Adaptive Bistatic Clutter Cancellation Methods; 11.5 Bistatic STAP Performance Characteristics; 11.6 Summary; References; Contributors; Index

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## Sommario/riassunto

Advances in Bistatic Radar updates and extends bistatic and multistatic radar developments since publication of Willis' Bistatic Radar in 1991. New and recently declassified military applications are documented. Civil applications are detailed including commercial and scientific systems. Leading radar engineers provide expertise to each of these applications. Advances in Bistatic Radar consists of two major sections: Bistatic/Multistatic Radar Systems and Bistatic Clutter and Signal Processing. Starting with a history update, the first section documents the early and now declassified military

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