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Autore	Musumeci, Maria
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Collana	Defense, security and strategy series
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Nota di contenuto	Intro -- ALTERNATIVES FOR MILITARY SPACE RADAR -- ALTERNATIVES FOR MILITARY SPACE RADAR -- CONTENTS -- PREFACE -- Chapter 1 ALTERNATIVES FOR MILITARY SPACE RADAR -- SUMMARY -- Space Radar's Operations and Intended Missions -- Issues in Designing a Space Radar System -- Design Trade-Offs -- Key Technological Challenges -- Alternative Space Radar Architectures -- Costs of the Alternative Space Radar Systems -- Performance Comparison of the Alternative Architectures -- SAR Performance -- Access -- Response Time -- Coverage -- GMTI Performance -- Access -- Coverage -- Mean Track Life -- Performance against Mobile Missile Launchers -- Data Processing and Communications Bandwidth -- 1. INTRODUCTION -- Space Radar's Intended Missions -- Synthetic Aperture Radar Imaging -- Ground Moving-Target Indication -- High-Resolution Terrain Information and Open-Ocean Surveillance -- CBO's Analytic Approach -- 2. PAST AND PRESENT SAR AND GMTI PLATFORMS -- Previous SAR Spacecraft -- Current SAR Spacecraft -- Designs for Planned SAR Spacecraft -- Airborne SAR and GMTI Systems -- Discoverer II GMTI Program -- 3. DESIGN TRADES, KEY TECHNOLOGIES, AND ALTERNATIVE ARCHITECTURES FOR SPACE RADAR -- Trade-Offs in Designing a Space Radar System -- Orbital Altitude and Inclination -- Benefits and Drawbacks of Various Altitudes -- Potential Problems

with Medium Earth Orbits -- The Role of Inclination -- Radar Antenna: Electronically Steered Array or Reflector? -- Radar Frequency -- Challenges Posed by Key Technologies -- Satellite Power -- Radar Bandwidth -- GMTI Signal Processing -- Communications Bandwidth -- The Alternative Architectures Analyzed in This chapter -- Costs of the Alternatives -- 4. PERFORMANCE COMPARISON OF ALTERNATIVE ARCHITECTURES FOR SPACE RADAR -- SAR Imaging Performance -- SAR Access -- SAR Response Time -- SAR Coverage -- GMTI Performance -- GMTI Access. GMTI Response Time -- GMTI Coverage -- Mean Track Life for Individual Targets -- Performance against Mobile Missile Launchers -- Data Processing and Communications Bandwidth -- SAR Data Rates -- GMTI Data Rates -- APPENDIX A. COST ESTIMATES FOR THE ALTERNATIVE SPACE RADAR SYSTEMS IN CBO'S ANALYSIS -- A Summary of the Alternatives and Their Costs -- CBO's Estimating Methods -- Research and Development Costs -- Procurement Costs -- Payload -- Spacecraft -- Integration and Assembly -- Ground Equipment -- Launch Vehicle -- Program Management -- Operations Costs -- Satellite Operations -- Tasking, Processing, Exploitation, and Dissemination -- Sustaining Engineering -- Replacement Space Radars and Launch Vehicles -- APPENDIX B. SAR AND GMTI ANALYSIS METHODOLOGIES -- SAR Analysis Methodology -- GMTI Analysis Methodology -- GLOSSARY -- End Notes -- Chapter 2 TRANSFORMATIONAL SATELLITE AND SPACE RADAR CHALLENGES -- RESULTS IN BRIEF -- CONCLUSION -- RECOMMENDATION FOR EXECUTIVE ACTION -- SCOPE AND METHODOLOGY -- ENCLOSURE I: COMMENTS FROM THE DEPARTMENT OF DEFENSE -- ENCLOSURE II: SPACE RADAR BRIEFING SLIDES -- Space Radar -- Briefing Contents -- BACKGROUND -- System Description and Capabilities -- Program Cost and Complexity -- Management and Stakeholders -- Program Status -- Knowledge about Requirements and Resources Should Influence Program Start -- OBJECTIVE -- RESULTS IN BRIEF -- PRELIMINARY FINDINGS -- Program Has Strived to Close Gaps: Requirements -- Program Has Strived to Close Gaps: Resources - Technology -- Program Has Strived to Close Gaps: Resources - Technology -- Program Has Strived to Close Gaps: Resources - Cost Sharing -- Challenges Remain - Requirements -- Challenges Remain - Program May Not Have Planned Enough Time -- Comparison of Months between Program Milestones -- Challenges Remain - Program May Not Have Planned Enough Time. Challenges Remain: Key Risks Need to Be Mitigated -- Examples of Top Risks of the Development Effort -- Challenges Remain: Key Risks Need to be Mitigated -- Challenges Remain - Agreements Need to be Finalized: Cost Sharing -- Challenges Remain - Agreements Need to be Finalized: Roles and Responsibilities -- Challenges Remain - Program Affordability -- Conclusions -- Scope of Work -- Locations for interviews and documentation: -- ENCLOSURE III: TRANSFORMATIONAL SATELLITE COMMUNICATIONS SYSTEM (TSAT) -- Transformational Satellite Communications System (TSAT) -- Briefing Contents -- BACKGROUND -- Importance of TSAT -- Importance of TSAT -- Cost, Funding & -- Schedule -- Incremental Block Approach -- Acquisition Schedule -- Incremental Block Approach -- OBJECTIVE -- RESULTS IN BRIEF -- PRELIMINARY FINDINGS -- Program Has Strived to Close Gaps: Requirements -- Program Has Strived to Close Gaps: Maturing Technology -- Program Has Strived to Close Gaps: Maturing Technology -- Challenges Remain: Early Tests Have Revealed Challenges in Laser Communication -- Challenges Remain: Limited Scalability Testing Adds Risk -- Challenges Remain: Program Faces

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Schedule Optimistic -- PRELIMINARY FINDINGS -- Challenges Remain:
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Technical Positions -- Challenges Remain: Program is Not Able to Fill
Critical Technical Positions -- CONCLUSIONS -- SCOPE OF WORK --
GAO'S MISSION -- End Notes -- CHAPTER SOURCES -- INDEX.

Sommario/riassunto

The Department of Defense (DoD) and the intelligence community rely
on various systems to provide imagery to tactical commanders and
intelligence analysts. This book examines the costs and potential
performance of four possible designs for a Space Radar System.
