



Space Operations Command Capabilities

GEO
Geostationary Earth Orbit
22,000 miles
Optimal for Continuous Earth Coverage

MEO
Medium Earth Orbit
1,200 - 22,000 miles
Optimal for Global Positioning, Navigation and Timing

LEO
Low Earth Orbit
1,200 miles
Optimal for Earth Sensing

Global Communications



Space Domain Awareness



Position, Navigation and Timing

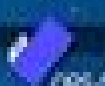


HEO
Highly Elliptical Orbit
1,200 - 22,000 miles
Optimal for Extended Polar Coverage

Weather



Space Domain Awareness



EPF

Missile Warning and Battlespace Awareness



SBIRS HEO



CSyOC

Executes the operational command and control of space forces to achieve theater and global objectives



Cyber MDTs

Provide specialized cyber defense to space weapon systems throughout the portfolio



Organic Intelligence

Provides foundational and operational space intelligence

Guardians, Airmen and Sailors - 8,000



Global Satellite Control Network



DSRS Sea Station 371
COOK Sea Station 371
GLAM Mainland
HULA Mainland
LCN 361 Overseas
POCO Puerto Rico
RCSF Diego Garcia

Ground-Based Space Domain Awareness



GRDCSS Diego Garcia Main Island
Eglin Radar Mainland
Space Fence Kwajalein Atoll
Space Surveillance Telescope Australia
C-Band Radar Australia

Missile Warning/Defense Radar



LEWRI Mainland
Cape Canaveral Cape Canaveral
PARCS Guam 371
Cobas Core Mainland 371

Space Electronic Warfare



CCSR Mainland
Main-Mission Platform 371
Bounty Hunter 371

Satellite Command/Control Centers



Schriever SFB
Buckley SFB
HNS Ford Mags
5 Wadsworth SDOCOM Operations Centers

Operations Research In Space And Air

**United States. National Aeronautics
and Space Administration**



Operations Research In Space And Air:

Operations Research in Space and Air Tito A. Ciriani, G. Fasano, S. Gliozzi, Roberto Tadei, 2013-04-18 Operations Research in Space and Air is a selection of papers reflecting the experience and expertise of international OR consulting companies and academic groups The global market and competition play a crucial part in the decision making processes within the Space and Air industries and this book gives practical examples of how advanced applications can be used by Space and Air industry management The material within the book provides both the basic background for the novice modeler and a useful reference for experienced modelers Students researchers and OR practitioners will appreciate the details of the modeling techniques the processes that have been implemented and the computational results that demonstrate the benefits in applying OR in the Space and Airline industries Advances in PC and Workstations technology in optimization engines and in modeling techniques now enable solving problems never before attained by Operations Research In recent years the Italian OR Society AfRO www.airo.org has organized annual forums for researchers and practitioners to meet together to present and discuss the various scientific and technical OR achievements The OR in Space & Air session of AfRO2001 and AfRO2002 Conferences together with optimization tools applications presented recent results achieved by Alenia Spazio SpA Turin Alitalia Milan Polytechnic and Turin Polytechnic With additional contributions from academia and industry they have enabled us to capture in print today's state of the art optimization and data mining solutions Army RD & A, 1998 Professional publication of the RD & A community

Operations Research in the Airline Industry Gang Yu, 1997-12-31 260 2 Crew Legalities and Crew Pairing Repair 264 3 Model and Mathematical Formulation 266 4 Solution Methodology 271 5 Computational Experiences 277 6 Conclusion 285 REFERENCES 286 10 THE USE OF OPTIMIZATION TO PERFORM AIR TRAFFIC FLOW MANAGEMENT Kenneth Lindsay E Andrew Boyd George Booth and Charles Harvey 287 1 Introduction 288 2 The Traffic Flow Management TFM Problem 289 3 Recent TFM Optimization Models 292 4 The Time Assignment Model TAM 302 5 Summary and Conclusions 307 REFERENCES 309 11 THE PROCESSES OF AIRLINE SYSTEM OPERATIONS CONTROL Seth C Grandeau Michael D Clarke and Dennis F X Mathaisel 312 1 Introduction 313 2 The Four Phases of Airline Schedule Development 315 The Airline Operations Control Center OCC 3 320 4 Analysis of Operational Problems 331 5 Areas For Improvement 352 6 Case Study PT Garuda Indonesia Airlines 357 REFERENCES 368 12 THE COMPLEX CONFIGURATION MODEL Bruce W Patty and Jim Diamond 370 1 Introduction 370 Problem Description 2 371 Problem Formulation 3 375 4 Model Implementation 379 ix Contents 383 5 Summary REFERENCES 383 13 INTEGRATED AIRLINE SCHEDULE PLANNING Cynthia Barnhart Fang Lu and Rajesh Shenoi 384 1 Introduction 385 2 Fleet Assignment and Crew Pairing Problems Existing Models and Algorithms 388 3 An Integrated Approximate Fleet Assignment and Crew Pairing Model 393 4 An Advanced Integrated Solution Approach 395 5 Case Study 396 6 Conclusions and Future Research Directions 399 REFERENCES 401 14 AIRLINE SCHEDULE PERTURBATION PROBLEM LANDING AND TAKEOFF WITH **NASA**

SP-7500 United States. National Aeronautics and Space Administration,1972 History of operations research in the United States Army Charles R. Shrader,2006 Scientific and Technical Aerospace Reports ,1974 **Air & Space Power Journal win 05** , **Geographic Distribution of Federal Funds in South Carolina** , Includes data for the executive branch of the Federal Government only *Geographic Distribution of Federal Funds in Texas* , Includes data for the executive branch of the Federal Government only *Geographic Distribution of Federal Funds in New York* , Includes data for the executive branch of the Federal Government only Geographic Distribution of Federal Funds in South Dakota , Includes data for the executive branch of the Federal Government only Geographic Distribution of Federal Funds in North Dakota , Includes data for the executive branch of the Federal Government only **Geographic Distribution of Federal Funds in Maine** , Includes data for the executive branch of the Federal Government only *Geographic Distribution of Federal Funds in Tennessee* , Includes data for the executive branch of the Federal Government only Geographic Distribution of Federal Funds in Wisconsin , Includes data for the executive branch of the Federal Government only **Federal Outlays in Indiana** United States. Community Services Administration,1980 *Geographic Distribution of Federal Funds in Mississippi* United States. Community Services Administration,1979 Includes data for the executive branch of the Federal Government only Federal Outlays in Summary United States. Community Services Administration, Includes data for the executive branch of the Federal Government only Geographic Distribution of Federal Funds in Idaho United States. Community Services Administration,1979 Includes data for the executive branch of the Federal Government only **Geographic Distribution of Federal Funds in Alaska** United States. Community Services Administration, Includes data for the executive branch of the Federal Government only

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1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Operations Research In Space And Air
 - Chapter 2: Essential Elements of Operations Research In Space And Air
 - Chapter 3: Operations Research In Space And Air in Everyday Life
 - Chapter 4: Operations Research In Space And Air in Specific Contexts
 - Chapter 5: Conclusion
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 3. In chapter 2, the author will delve into the foundational concepts of Operations Research In Space And Air. The second chapter will elucidate the essential principles that need to be understood to grasp Operations Research In Space And Air in its entirety.
 4. In chapter 3, the author will examine the practical applications of Operations Research In Space And Air in daily life. This chapter will showcase real-world examples of how Operations Research In Space And Air can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Operations Research In Space And Air in specific contexts. This chapter will explore how Operations Research In Space And Air is applied in specialized fields, such as education, business, and technology.
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