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Titolo	Space operations : experience, mission systems, and advanced concepts // edited by Michael Schmidhuber, German Aerospace Center (DLR), Oberpfaffenhofen, Germany, Craig Cruzen, NASA Marshall Space Flight Center, Huntsville, Alabama, Joachim Kehr, German Aerospace Center (DLR), Oberpfaffenhofen, Germany
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	<p>""ABOUT SPACEOPS""; ""TABLE OF CONTENTS""; ""PREFACE""; ""CHAPTER 1 International Space Station: Unique In-Space Testbed as Exploration Analog ""; ""I. INTRODUCTION""; ""II. OVERVIEW""; ""III. ADVANCED EXPLORATION SYSTEMS ANALOG MISSIONS""; ""IV. INTERNATIONAL SPACE STATION""; ""V. HUMAN SPACEFLIGHT ARCHITECTURAL TEAM""; ""VI. HUMAN RESEARCH PROGRAM""; ""VII. ISTAR MISSIONS""; ""VIII. ISS MARS ANALOG MISSION""; ""IX. CHALLENGES""; ""X. CONCLUSION""; ""ACRONYMS""; ""ACKNOWLEDGMENTS""; ""REFERENCES""; ""CHAPTER 2 Reengineering the Mission Operations System for the Prime and Extended Mission ""</p> <p>""I. INTRODUCTION""""II. SPITZER MOS""; ""III. NEED FOR REENGINEERING""; ""IV. REENGINEERING IN PRIME MISSION AND EXTENDED MISSION""; ""V. HUMAN ELEMENTS""; ""VI. SUMMARY""; ""VII. CONCLUSION""; ""ACRONYMS""; ""ACKNOWLEDGMENTS""; ""REFERENCES""; ""CHAPTER 3 Mission Operations Preparation Environment: A New Approach for the Future ""; ""I. INTRODUCTION""; ""II. REVISIT THE DATA MODEL""; ""III. EXPANDING THE SSM DEFINITION""; ""IV. IMPLEMENTATION DETAILS""; ""V. CONCLUSION""; ""REFERENCES""; ""CHAPTER 4 The Keys to Successful Extended Missions""; ""I. INTRODUCTION""</p> <p>""II. SENIOR REVIEW PROCESS""""III. HISTORICAL EXTENDED MISSION SUPPORT AND SCIENTIFIC PRODUCTIVITY""; ""IV. RECOMMENDATIONS FROM EXTENDED MISSION PROJECT LEADERS""; ""V. CONCLUSION""; ""ACKNOWLEDGMENTS""; ""REFERENCES""; ""CHAPTER 5 Multi-Mission Operator Training Practices""; ""I. INTRODUCTION""; ""II. STUDENT OPERATORS: COMMAND CONTROLLERS""; ""III. COMMAND CONTROLLER TRAINING""; ""IV. COMMAND CONTROLLER CERTIFICATION""; ""V. ADVANCED STUDENT TRAINING""; ""VI. FLIGHT CONTROLLER TRAINING""; ""VII. CONTINUED TRAINING, OPERATIONAL REVIEW BOARDS, AND RECERTIFICATION""; ""VIII. CONCLUSION""</p> <p>""ACRONYMS""""ACKNOWLEDGMENTS""; ""CHAPTER 6 Gamification for Astronaut Training ""; ""I. INTRODUCTION""; ""II. GAME CHANGER: LONG-DURATION MISSIONS""; ""III. GAMIFICATION: GAMING AS A MOTIVATOR""; ""IV. LETa€?S PLAY: A PORTABLE LEARNING APPLICATION""; ""V. SCORE: RESULTS OF THE EVALUATION""; ""VI. RESULTS""; ""VII. LESSONS-LEARNED""; ""ACKNOWLEDGMENTS""; ""REFERENCES""; ""CHAPTER 7 Timeline as Unifying Concept for Spacecraft Operations ""; ""I. INTRODUCTION""; ""II. RELATED WORK""; ""III. INTRODUCTION TO TIMELINES""; ""IV. KEY TIMELINE CONCEPTS""; ""V. TIMELINE CATEGORIES""</p> <p>""VI. ARCHITECTURE PRINCIPLES""""VII. ARCHITECTURE""; ""VIII. CM OPERATIONS""; ""IX. ADMINISTRATIVE OPERATIONS""; ""X. FUTURE WORK""; ""ACKNOWLEDGMENTS""; ""REFERENCES""; ""CHAPTER 8 Pools: A More Efficient Way to Support Spacecraft ""; ""I. INTRODUCTION""; ""II. POOLS STRATEGY""; ""III. OPERATIONS ENGINEERING GROUP""; ""IV. CHALLENGES""; ""V. ACHIEVEMENTS""; ""VI. CONCLUSIONS AND FURTHER DEVELOPMENTS""; ""APPENDIX: OEG CULTURE""; ""ACRONYMS""; ""GLOSSARY""; ""REFERENCES""; ""CHAPTER 9 NASA Space Launch System Operations Strategy ""; ""I. INTRODUCTION""</p> <p>""II. SLS TEAM, PARTNERS, AND STAKEHOLDERS""</p>