

MERCURY MAGNETOSPHERIC ORBITER

E. BALDWIN

? **MERCURY ORBITER** MERCURY ORBITER SCIENCE WORKING TEAM, 1991

? **BEPI COLOMBO** E. BALDWIN, 2017

? **MERCURY ORBITER: REPORT OF THE SCIENCE WORKING TEAM** JOHN W. BELCHER, 1991

? **FAR-OUT GUIDE TO MERCURY** MARY KAY CARSON, 2013-04 CRATERED MERCURY IS THE SMALLEST AND FASTEST PLANET IN THE SOLAR SYSTEM. TEMPERATURES THERE VARY MORE THAN ON ANY OTHER PLANET. LEARN LOTS OF FAR-OUT FACTS ABOUT THE CLOSEST PLANET TO THE SUN. THIS BOOK FEATURES A CENTER SPREAD WITH FAST FACTS, PERFECT FOR REPORT WRITING.

? **MERCURY ORBITER** NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, 2014-10-20 THE MARINER-10 FLYBYS OF MERCURY IN 1974 AND 1975 RESULTED IN THE DISCOVERY OF A PLANETARY MAGNETIC FIELD AND AN ACTIVE MAGNETOSPHERE SIMILAR TO THAT OF EARTH. BASED UPON THE SMALL SIZE OF THE PLANET, MERCURY'S INTERIOR WAS EXPECTED TO HAVE COOLED AND SOLIDIFIED LONG AGO. THE PRESENCE OF AN INTRINSIC MAGNETIC FIELD, HOWEVER, IMPLIED AN INTERNAL DYNAMO IN A FLUID CORE, POSING FUNDAMENTAL, UNRESOLVED ISSUES CONCERNING THE ORIGIN, COMPOSITION, AND THERMAL HISTORY OF MERCURY. THE MARINER-10 SPACECRAFT ALSO DETECTED INTENSE PARTICLE BURSTS AND MAGNETIC FIELD DISTURBANCES, INDICATING THAT MAGNETOSPHERIC SUBSTORMS OCCUR AT MERCURY. THE MARINER-10 IMAGES REVEALED A NUMBER OF SURFACE FEATURES UNIQUE TO MERCURY, INCLUDING LARGE-SCALE THRUST FAULTS APPARENTLY ASSOCIATED WITH CRUSTAL COMPRESSION AS THE PLANET COOLED AND CONTRACTED. FOLLOW-ON MISSIONS TO MERCURY WERE STUDIED IN THE LATE 1970'S, BUT DEFERRED BECAUSE OF PERCEIVED DIFFICULTIES IN SPACECRAFT PROPULSION AND THERMAL ENGINEERING REQUIREMENTS AS THEY WERE UNDERSTOOD AT THE TIME. WITHIN THE PAST FEW YEARS, IT HAS BECOME APPARENT THAT A MODERATE-COST MISSION TO MERCURY CAN PROVIDE THE PARTICLES AND FIELDS MEASUREMENTS AND PLANETOLOGICAL OBSERVATIONS NECESSARY TO YIELD MAJOR ADVANCES IN OUR UNDERSTANDING OF MERCURY AND ITS MAGNETOSPHERE. MERCURY ORBITER (MeO) AS DESCRIBED IN THIS REPORT IS SUCH A MISSION. IT INVOLVES DUAL, SPIN STABILIZED SPACECRAFT LAUNCHED BY A SINGLE TITAN-IV CENTAUR VEHICLE, A 4-5 YEAR GRAVITY-ASSIST TRAJECTORY, AND A NOMINAL ONE EARTH-YEAR-DURATION MISSION AT MERCURY. THIS REPORT PRESENTS THE RESULTS OF THE MERCURY ORBITER SCIENCE WORKING TEAM (MeO SWT) WHICH HELD THREE WORKSHOPS IN 1988/1989 UNDER THE AUSPICES OF THE SPACE PHYSICS AND PLANETARY EXPLORATION DIVISIONS OF NASA HEADQUARTERS. SPACECRAFT ENGINEERING AND MISSION DESIGN STUDIES AT THE JET PROPULSION LABORATORY WERE CONDUCTED IN PARALLEL WITH THIS EFFORT AND ARE DETAILED ELSEWHERE. THE FINDINGS OF THE ENGINEERING STUDY, SUMMARIZED IN THIS REPORT, INDICATE THAT SPIN-STABILIZED SPACECRAFT CARRYING COMPREHENSIVE PARTICLES AND FIELDS EXPERIMENTS AND KEY PLANETOLOGY INSTRUMENTS IN HIGHLY ELLIPTICAL ORBITS CAN SURVIVE AND FUNCTION IN MERCURY ORBIT WITHOUT COSTLY SUN-SHIELDS AND ACTIVE COOLING SYSTEMS.

? **MERCURY ORBITER: REPORT OF THE SCIENCE WORKING TEAM**, 1991

? **MERCURY** SEAN C. SOLOMON, LARRY R. NITTLER, BRIAN J. ANDERSON, 2018-12-20 OFFERS AN AUTHORITATIVE SYNTHESIS OF KNOWLEDGE OF THE PLANET MERCURY AFTER THE MESSENGER MISSION, FOR RESEARCHERS AND STUDENTS IN PLANETARY SCIENCE.

? **PLANET MERCURY** DAVID A. ROTHERY, 2014-11-13 A NEW AND DETAILED PICTURE OF MERCURY IS EMERGING THANKS TO NASA'S MESSENGER MISSION THAT SPENT FOUR YEARS IN ORBIT ABOUT THE SUN'S INNERMOST PLANET. COMPREHENSIVELY ILLUSTRATED BY CLOSE-UP IMAGES AND OTHER DATA, THE AUTHOR DESCRIBES MERCURY'S LANDSCAPES FROM A GEOLOGICAL PERSPECTIVE: FROM SUBLIMATION HOLLOWES, TO VOLCANIC VENTS, TO LAVA PLAINS, TO GIANT THRUST FAULTS. HE CONSIDERS WHAT ITS GIANT CORE, INTERNAL STRUCTURE AND WEIRD COMPOSITION HAVE TO TELL US ABOUT THE FORMATION AND EVOLUTION OF A PLANET SO CLOSE TO THE SUN. THIS IS OF SPECIAL SIGNIFICANCE IN VIEW OF THE DISCOVERY OF SO MANY EXOPLANETS IN SIMILARLY CLOSE ORBITS ABOUT THEIR STARS. MERCURY GENERATES ITS OWN MAGNETIC FIELD, LIKE THE EARTH (BUT UNLIKE VENUS, MARS AND THE MOON), AND THE INTERPLAY BETWEEN MERCURY'S AND THE SUN'S MAGNETIC FIELD AFFECTS MANY PROCESSES ON ITS SURFACE AND IN THE RICH AND DIVERSE EXOSPHERE OF NEUTRAL AND CHARGED PARTICLES SURROUNDING THE PLANET. THERE IS MUCH ABOUT MERCURY THAT WE STILL DON'T UNDERSTAND. ACCESSIBLE TO THE AMATEUR, BUT ALSO A HANDY STATE-OF-THE-ART DIGEST FOR STUDENTS AND RESEARCHERS, THE BOOK SHOWS HOW OUR KNOWLEDGE OF MERCURY DEVELOPED OVER THE PAST CENTURY OF GROUND-BASED, FLY-BY AND ORBITAL OBSERVATIONS, AND LOOKS AHEAD AT THE MYSTERIES REMAINING FOR FUTURE MISSIONS TO EXPLORE.

? **NASA'S PLANETARY DATA SYSTEM**, 1992

? **BALLISTIC MODE MERCURY ORBITER MISSION OPPORTUNITY HANDBOOK** G. R. HOLLENBECK, D. G. ROOS, P. S. LEWIS, 1973

? **MERCURY** SEAN C. SOLOMON, LARRY R. NITTLER, BRIAN J. ANDERSON, 2018-12-20 OBSERVATIONS FROM THE FIRST SPACECRAFT TO ORBIT THE PLANET MERCURY HAVE TRANSFORMED OUR UNDERSTANDING OF THE ORIGIN AND EVOLUTION OF ROCKY PLANETS. THIS VOLUME IS THE DEFINITIVE RESOURCE ABOUT MERCURY FOR PLANETARY SCIENTISTS, FROM STUDENTS TO SENIOR RESEARCHERS. TOPICS TREATED IN DEPTH INCLUDE MERCURY'S CHEMICAL COMPOSITION; THE STRUCTURE OF ITS CRUST, LITHOSPHERE, MANTLE, AND CORE; MERCURY'S MODERN AND ANCIENT MAGNETIC FIELD; MERCURY'S GEOLOGY, INCLUDING THE PLANET'S MAJOR GEOLOGICAL UNITS AND THEIR SURFACE CHEMISTRY AND MINERALOGY, ITS SPECTRAL REFLECTANCE

CHARACTERISTICS, ITS CRATERS AND CRATERING HISTORY, ITS TECTONIC FEATURES AND DEFORMATIONAL HISTORY, ITS VOLCANIC FEATURES AND MAGMATIC HISTORY, ITS DISTINCTIVE HOLLOWES, AND THE FROZEN ICES IN ITS POLAR DEPOSITS; MERCURY'S EXOSPHERE AND MAGNETOSPHERE AND THE PROCESSES THAT GOVERN THEIR DYNAMICS AND THEIR INTERACTION WITH THE SOLAR WIND AND INTERPLANETARY MAGNETIC FIELD; THE FORMATION AND LARGE-SCALE EVOLUTION OF THE PLANET; AND CURRENT PLANS AND NEEDED CAPABILITIES TO EXPLORE MERCURY FURTHER IN THE FUTURE.

☐ **THE VOYAGE OF MARINER 10** JAMES A. DUNNE, ERIC BURGESS, 1978

☐ **EXPLORING MERCURY** ROBERT G. STROM, ANN L. SPRAGUE, 2003-07-15 STROM: MERCURY HOW DID MERCURY GET SUCH AN ENORMOUS IRON CORE? WHY IS ITS TECTONIC FRAMEWORK SO DIFFERENT FROM ANY OTHER PLANET OR SATELLITE? WHAT IS ITS CRYSTAL COMPOSITION? WHY IS THE CRUST SO DEPLETED IN IRON WHEN THE INTERIOR IS SO RICH IN THAT ELEMENT? WHAT ARE THE POLAR DEPOSITS? WHERE DO THE ELEMENTS IN THE EXOSPHERE COME FROM? MERCURY IS A PLANET SHROUDED IN MYSTERY. ONLY 45 PERCENT OF ITS SURFACE HAS BEEN SEEN IN ANY DETAIL, AND THAT WAS FROM THE MARINER 10 FLYBY IN 1974. YET WHAT IS KNOWN ONLY MAKES THE PLANET MORE FASCINATING. NEW EARTH-BASED OBSERVATIONS HAVE SHED LIGHT ON SURFACE AND EXOSPHERE COMPOSITIONS, AND RE-EVALUATIONS OF THE MARINER 10 DATA, USING MODERN IMAGE PROCESSING TECHNIQUES, SHOW EVIDENCE FOR VOLCANIC FLOW FRONTS, PYROCLASTICS AND OTHER VOLCANIC PHENOMENA NOT SEEN BEFORE. THIS GROUND-BREAKING BOOK NOT ONLY CHRONICLES WHAT HAS BEEN DISCOVERED, BUT LOOKS AHEAD TO WHAT HAS YET TO EMERGE. AN ACCOMPANYING CD CONTAINS ALL THE BEST MARINER 10 IMAGES, INCLUDING THE DATA FOR EACH IMAGE, PHOTOMOSAICS AND MAPS.

☐ **MERCURY** CARLO P. CROCE, 2008-01-15 MERCURY IS THE CLOSEST PLANET TO THE SUN. BECAUSE OF THIS, SCIENTISTS ARE NOT ABLE TO POINT TELESCOPES TOWARD IT, MAKING MERCURY PARTICULARLY DIFFICULT TO STUDY. HOWEVER, NEW MISSIONS TO MERCURY ARE PLANNED OVER THE NEXT SEVEN YEARS, WHICH ARE EXPECTED TO REVEAL INFORMATION ABOUT THE PLANET'S GEOLOGY, DENSITY, CORE, COMPOSITION, AND MAGNETIC FIELD. THIS BOOK PROVIDES DESCRIPTIONS OF THESE FUTURE MISSIONS AS WELL AS THE MOST CURRENT INFORMATION AVAILABLE TODAY. THIS REVISION OF MERCURY INCLUDES THE MOST UP-TO-DATE INFORMATION ON AND ABOUT THE PLANET. REFERENCES NO LONGER REFER TO PLUTO AS A PLANET. ALSO INCLUDES TIMELINE AND UPDATED BACK MATTER.

☐ **MERCURY** T.J. MAHONEY, 2013-11-18 THE PURPOSE OF THIS GAZETTEER AND ATLAS OF ASTRONOMY (GAA) IS TO LIST, DEFINE AND ILLUSTRATE, FOR THE FIRST TIME, EVERY NAMED (AS OPPOSED TO MERELY CATALOGUED) OBJECT IN THE SKY WITHIN A SINGLE REFERENCE WORK FOR USE BY THE GENERAL READER, WRITERS AND EDITORS DEALING WITH ASTRONOMICAL THEMES, AND THOSE ASTRONOMERS CONCERNED WITH ANY ASPECT OF ASTRONOMICAL NOMENCLATURE. EACH PART OF THE GAA WILL CONTAIN: • AN INTRODUCTION TO THE NOMENCLATURE OF THE BODY OR GROUP OF BODIES IN QUESTION • A GLOSSARY OF TERMINOLOGY USED • A GAZETTEER LISTING IN STRICT ALPHANUMERICAL SEQUENCE ESSENTIAL INFORMATION DEFINING THE BODY OR FEATURE CONCERNED • AN ALPHANUMERICALLY ARRANGED CLASSIFIED INDEX OF ALL THE HEADWORDS IN THE GAZETTEER • AN ATLAS COMPRISING MAPS AND IMAGES WITH COORDINATE GRIDS AND LABELS IDENTIFYING FEATURES LISTED IN THE GAZETTEER • APPENDIX MATERIAL ON THE IAU NOMENCLATURE SYSTEM AND THE TRANSCRIPTION SYSTEMS USED FOR NON-ROMAN ALPHABETS

☐ **MERCURY** A. BALOGH, LEONID KSAFOMALITY, RUDOLF VON STEIGER, 2008-02-23 THIS FASCINATING BOOK REVIEWS THE PROGRESS MADE IN MERCURY STUDIES SINCE THE FLYBYS BY MARINER 10 IN 1974-75. THUS FAR, IT IS THE ONLY BOOK ON MERCURY WHICH BALANCES A WIDE RANGE OF EARTH-BASED OBSERVATIONS, MADE UNDER DIFFICULT CONDITIONS, WITH THE ONLY AVAILABLE SPACE-BASED DATA. THE TEXT IS BASED ON CONTINUED RESEARCH USING THE MARINER 10 ARCHIVE, ON OBSERVATIONS FROM EARTH, AND ON INCREASINGLY REALISTIC MODELS OF THIS MYSTERIOUS PLANET'S INTERIOR EVOLUTION.

☐ **ADVANCES IN GEOSCIENCES** WING-HUEN IP, 2006-05-22 ADVANCES IN GEOSCIENCES IS THE RESULT OF A CONCERTED EFFORT IN BRINGING THE LATEST RESULTS AND PLANNING ACTIVITIES RELATED TO EARTH AND SPACE SCIENCE IN ASIA AND THE INTERNATIONAL ARENA. THE VOLUME EDITORS ARE ALL LEADING SCIENTISTS IN THEIR RESEARCH FIELDS COVERING FIVE SECTIONS: SOLID EARTH (SE), SOLAR TERRESTRIAL (ST), PLANETARY SCIENCE (PS), HYDROLOGICAL SCIENCE (HS), AND OCEANS AND ATMOSPHERES (OA). THE MAIN PURPOSE IS TO HIGHLIGHT THE SCIENTIFIC ISSUES ESSENTIAL TO THE STUDY OF EARTHQUAKES, TSUNAMIS, CLIMATE CHANGE, DROUGHT, FLOOD, TYPHOONS, SPACE WEATHERS, AND PLANETARY EXPLORATION. THIS VOLUME IS ABSTRACTED IN NASA'S ASTROPHYSICS DATA SYSTEM: [HTTP://ADS.HARVARD.EDU](http://ads.harvard.edu) CONTENTS: VOLUME 1: SOLID EARTH (SE) SOURCE PROCESS OF THE 2004 SUMATRA-ANDAMAN EARTHQUAKE (L S XU & Y T CHEN) FUZZY LOGIC MODEL FOR MULTI-RESERVOIR OPERATION (S MOHAN & M A PRASAD) TEST OF INNER CORE SUPER ROTATION USING GRAVITY VARIATION (W SHEN & J NING) THE EARTH-MANTLE MODEL USING A SEISMOGRAM ANALYSIS ON HALMAHERA EARTHQUAKE C112597C WITH THE PMG OBSERVATION STATION (B J SANTOSA) GPS ESTIMATE OF THE TECTONIC ACTIVITY AND DEFORMATION IN NORTH CHINA (C XU & Z LI) LARGE-SCALE SILICIC VOLCANISM — THE RESULT OF THERMAL MATURATION OF THE CRUST (S DE SILVA ET AL.) AND OTHER PAPERS VOLUME 2: SOLAR TERRESTRIAL (ST) SOLAR CORONAL PLUMES: THEORETICAL CONCEPTS AND RESULTS (M CUNTZ) OBSERVATIONAL STUDY OF SOLAR MAGNETIC ACTIVE PHENOMENA BY HUAIROU VECTOR MAGNETOGRAPH (H ZHANG) SECTOR BOUNDARY CROSSINGS AND GEOMAGNETIC ACTIVITIES (S WATARI & T WATANABE) AURORA-ASSOCIATED PHENOMENA AND THE EPOP MISSION (L M KAGAN) ULTRA LONG RANGE AIRCRAFT OPERATIONS AND SPACE WEATHER (I L GETLEY & M L DULDIG) LINK BETWEEN COSMIC RAYS AND CLOUDS ON DIFFERENT TIME SCALES (I G USOSKIN & G A KOVALTSOV) EFFECTS OF TYPHOON ON THE IONOSPHERE (Y-M LIU

ET AL.)A MISSION CALLED SAPPORO (W-H IP ET AL.)AND OTHER PAPERSVOLUME 3: PLANETARY SCIENCE (PS)REVIEW OF MARINER 10 OBSERVATIONS: MERCURY SURFACE IMPACT PROCESSES (C R CHAPMAN)ON THE DYNAMICS OF CHARGED PARTICLES IN THE MAGNETOSPHERE OF MERCURY (D C DELCOURT & K SEKI)NEUTRAL ATOM EMISSION FROM MERCURY (A MURA ET AL.)DIAGNOSING THE MERCURY PLASMA ENVIRONMENT USING LOW-FREQUENCY ELECTRIC FIELD MEASUREMENTS (L G BLOMBERG & J A CUMNOCK)LOW ENERGY ION OBSERVATION BY MERCURY MAGNETOSPHERIC ORBITER: MMO (Y SAITO ET AL.)ICE ON THE MOON AND MERCURY (D H CRIDER ET AL.)THE BULK DENSITY OF COMETARY NUCLEI (B J R DAVIDSSON)A MISSION CALLED SAPPORO (W-H IP ET AL.)AND OTHER PAPERSVOLUME 4: HYDROLOGICAL SCIENCE (HS)SIMULATION KOREA SUMMER MONSOON RAINFALL WITH NCAR REGIONAL CLIMATE MODEL (F P SINGH ET AL.)URBAN FLOOD ANALYSIS WITH UNDERGROUND SPACE (K TODA ET AL.)CLIMATE VARIABILITY AND DROUGHT IN RAJASTHAN (A GOEL & R B SINGH)MODELING OF FLOODPLAIN INUNDATION PROCESS IN LOW-LYING AREAS (P T HAI ET AL.)OXYGEN TRANSFER BY FLOW CHARACTERISTICS AT STEPPED DROP STRUCTURE (J-H KIM)INTER AND INTRA NEURONAL SYSTEMS FOR RESERVOIR OPERATION (R B VARADHARAJAN)SENSITIVITY ANALYSIS FOR OPTIMIZATION MODEL FOR COASTAL GROUNDWATER (S-H HONG & N PARK)AND OTHER PAPERSVOLUME 5: OCEANS AND ATMOSPHERES (OA)SABAH SHORELINE MANAGEMENT PLAN (F JAKOBSEN ET AL.)POTENTIAL FOR SULFIDE MINERAL DEPOSITS IN AUSTRALIAN WATERS (T F MCCONACHY)LOCAL TO LONG-RANGE DUST TRANSPORT OVER CENTRAL EASTERN AUSTRALIA (M S SPEER & L M LESLIE)INTERANNUAL VARIATIONS IN PACIFIC SST DEVIATIONS THROUGH AVHRR (J YU & P GLOERSEN)AN INVESTIGATION OF WINTER RAINFALL AND SNOWFALL IN THE MOUNTAIN AND COAST (H CHOI)IMPACT OF REGIONAL CIRCULATION AND HEAT BUDGET TO TROPICAL NIGHT (H CHOI & D S CHOI)AND OTHER PAPERS READERSHIP: ACADEMICS, RESEARCHERS AND POSTGRADUATE STUDENTS IN GEOSCIENCES.KEYWORDS:PLANETARY SCIENCE;ATMOSPHERE;IONOSPHERE;MAGNETOSPHERE

📖 **ELECTRIC CURRENTS IN GEOSPACE AND BEYOND** ANDREAS KEILING, OCTAV MARGHITU, MICHAEL WHEATLAND, 2018-05-08 ELECTRIC CURRENTS ARE FUNDAMENTAL TO THE STRUCTURE AND DYNAMICS OF SPACE PLASMAS, INCLUDING OUR OWN NEAR-EARTH SPACE ENVIRONMENT, OR “GEOSPACE.” THIS VOLUME TAKES AN INTEGRATED APPROACH TO THE SUBJECT OF ELECTRIC CURRENTS BY INCORPORATING THEIR PHENOMENOLOGY AND PHYSICS FOR MANY REGIONS IN ONE VOLUME. IT COVERS A BROAD RANGE OF TOPICS FROM THE PIONEERS OF ELECTRIC CURRENTS IN OUTER SPACE, TO MEASUREMENT AND ANALYSIS TECHNIQUES, AND THE MANY TYPES OF ELECTRIC CURRENTS. FIRST VOLUME ON ELECTRIC CURRENTS IN SPACE IN OVER A DECADE THAT PROVIDES AUTHORITATIVE UP-TO-DATE INSIGHT ON THE CURRENT STATUS OF RESEARCH REVIEWS RECENT ADVANCES IN OBSERVATIONS, SIMULATION, AND THEORY OF ELECTRIC CURRENTS PROVIDES COMPARATIVE OVERVIEWS OF ELECTRIC CURRENTS IN THE SPACE ENVIRONMENTS OF DIFFERENT ASTRONOMICAL BODIES ELECTRIC CURRENTS IN GEOSPACE AND BEYOND SERVES AS AN EXCELLENT REFERENCE VOLUME FOR A BROAD COMMUNITY OF SPACE SCIENTISTS, ASTRONOMERS, AND ASTROPHYSICISTS WHO ARE STUDYING SPACE PLASMAS IN THE SOLAR SYSTEM. READ AN INTERVIEW WITH THE EDITORS TO FIND OUT MORE: [HTTPS://EOS.ORG/EDITORS-VOX/ELECTRIC-CURRENTS-IN-OUTER-SPACE-RUN-THE-SHOW](https://eos.org/editors-vox/electric-currents-in-outer-space-run-the-show)

📖 **ADCS - SPACECRAFT ATTITUDE DETERMINATION AND CONTROL** MICHAEL PALUSZEK, 2023-04-27 ADCS - SPACECRAFT ATTITUDE DETERMINATION AND CONTROL PROVIDES A COMPLETE INTRODUCTION TO SPACECRAFT CONTROL. THE BOOK COVERS ALL ELEMENTS OF ATTITUDE CONTROL SYSTEM DESIGN, INCLUDING KINEMATICS, DYNAMICS, ORBITS, DISTURBANCES, ACTUATORS, SENSORS, AND MISSION OPERATIONS. ESSENTIAL HARDWARE DETAILS ARE PROVIDED FOR STAR CAMERAS, REACTION WHEELS, SUN SENSORS, AND OTHER KEY COMPONENTS. THE BOOK EXPLORES HOW TO DESIGN A CONTROL SYSTEM FOR A SPACECRAFT, CONTROL THEORY, AND ACTUATOR AND SENSOR DETAILS. EXAMPLES ARE DRAWN FROM THE AUTHOR’S 40 YEARS OF INDUSTRIAL EXPERIENCE WITH SPACECRAFT SUCH AS GGS, GPS IIR, MARS OBSERVER, AND COMMERCIAL COMMUNICATIONS SATELLITES, AND INCLUDES HISTORICAL BACKGROUND AND REAL-LIFE EXAMPLES. FEATURES CRITICAL DETAILS ON HARDWARE AND THE SPACE ENVIRONMENT COMBINES THEORY AND READY-TO-IMPLEMENT PRACTICAL ALGORITHMS INCLUDES MATLAB CODE FOR ALL EXAMPLES PROVIDES PLOTS AND FIGURES GENERATED WITH THE INCLUDED CODE

📖 **GLOBAL ISSUES SURROUNDING OUTER SPACE LAW AND POLICY** KIM, DOO HWAN, 2021-04-23 THE UNITED NATIONS CURRENTLY HAS FIVE EFFECTIVE INTERNATIONAL SPACE TREATIES, NAMELY THE OUTER SPACE TREATY OF 1967, SPACE RESCUE AGREEMENT OF 1968, SPACE LIABILITY CONVENTION OF 1972, SPACE REGISTRATION CONVENTION OF 1975, AND MOON AGREEMENT OF 1979. HOWEVER, WITH RECENT COMPETITION AND MOVEMENTS TO MINE AND EXPLOIT NATURAL RESOURCES FROM SUCH ENTITIES AS THE MOON, ASTEROIDS, ETC., THESE OUTDATED TREATIES NO LONGER ADDRESS CURRENT ADVANCEMENTS. IT IS IMPERATIVE THAT NEW RESEARCH IS UNDERTAKEN TO URGE AND PROGRESS NEW SPACE LAWS AND POLICIES THAT STRENGTHEN INTERNATIONAL COOPERATION AND JOINT UNDERTAKINGS INTO THE EXPLOITATION OF NATURAL RESOURCES FROM OUTER SPACE. GLOBAL ISSUES SURROUNDING OUTER SPACE LAW AND POLICY GRANTS A GENERAL UNDERSTANDING FOR THE CURRENT ISSUES AND METHODS OF SOLUTION IN THE FIELD OF OUTER SPACE LAW AND POLICY IN THE GLOBAL SOCIETY. IT SUGGESTS A REVISION OF THE FIVE INTERNATIONAL SPACE TREATIES AND PRESENTS A NEW INTERNATIONAL SPACE AGENCY (ISA) THAT WOULD USE INTERNATIONAL COOPERATION AND AN INTERNATIONAL COURT OF AIR AND SPACE LAW TO PROMOTE THE SPEED OF WORK AND FAIRNESS IN TRIALS OF AIR AND SPACE LAW CASES. ADDITIONALLY, SOLUTIONS FOR THE COOPERATION OF THE GLOBAL COMMUNITY TOWARDS JOINT UNDERTAKINGS AND EXPLOITATION OF NATURAL RESOURCES IN CELESTIAL BODIES IS EXPLORED. THIS BOOK IS IDEAL FOR LAWYERS, PROFESSORS, GOVERNMENT OFFICIALS, SPACE AGENCIES, ACADEMICIANS, RESEARCHERS, STUDENTS, AND ANYONE LOOKING TO UNDERSTAND THE COMPLICATED PROBLEMS AND METHODS OF SOLUTION IN INTERNATIONAL SPACE LAW AND POLICY.

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