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| Titolo | Computers in the Service of Society / Robert Lee Chartrand |
| Pubbl/distr/stampa | New York [etc.] : Pergamon, 1972 |
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| Altri autori (Persone) | DementievaAkilina
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Interpreting Asteroid Spectra ""; ""Visible Analysis of Spectra ""; |

""Visible/Near-Infrared Mineralogical Analysis of Spectra""; ""Effects of Surface Properties on Asteroid Spectra""; ""METEORITES AND POSSIBLE PARENT BODIES""; ""Ordinary Chondrites and the S-Type Asteroids"" ""HEDs and Asteroid 4-Vesta"" ""CM Chondrites and the C-Type Asteroids""; ""Iron Meteorites and M-Type Asteroids""; ""Aubrites and E-Types""; ""Ureilites and F-Types""; ""CONCLUSION""; ""ACKNOWLEDGMENTS""; ""REFERENCES""; ""EXTRATERRESTRIAL MATERIAL AND CHANGES OF THE EARTH'S CLIMATE""; ""ABSTRACT""; ""INTRODUCTION""; ""THE INFLUENCE OF CONTINUOUS FLUX OF EXTRATERRESTRIAL SUBSTANCE ON ATMOSPHERIC PROCESSES""; ""POSSIBLE INFLUENCE OF ASTEROID IMPACT ON ATMOSPHERIC PROCESSES""; ""The Hallstatt Cycle and Taurid Stream"" ""Possible Climatic Consequences of Impact of a Stony Asteroid with a Diameter of 250 M"" ""CONCLUSION""; ""REFERENCES""; ""THE DIVERSION AND EXPLOITATION OF ICE-RICH NEOS USING THE SOLAR COLLECTOR""; ""ABSTRACT""; ""INTRODUCTION: THE NEO THREAT, THE NEO OPPORTUNITY""; ""THE SOLAR COLLECTOR (SC)""; ""MODELING THE SOLAR COLLECTOR AS A NEO DEFLECTOR""; ""DETERMINATION OF EM PENETRATION DEPTH FOR AN EXTRATERRESTRIAL SAMPLE""; ""CONSTRAINTS ON SOLAR COLLECTOR DESIGN AND POSITION""; ""ASSUMED NEO PROPERTIES""; ""MINIMUM SOLAR COLLECTOR SIZE"" ""SCENARIO 1: DIVERTING AN EARTH-THREATENING NEO"" ""SCENARIO 2: STEERING A SMALL NEO INTO HIGH EARTH ORBIT""; ""CONCLUSION""; ""ACKNOWLEDGMENTS""; ""REFERENCES""; ""RADAR CHARACTERISTICS OF ASTEROID 33342 (1998 WT24)""; ""ABSTRACT""; ""INTRODUCTION""; ""RADAR DATA ANALYSIS""; ""CHARACTERISTICS OF THE ASTEROID""; ""RESULTS COMPARISON""; ""SCATTERING PROPERTIES OF ASTEROID""; ""CONCLUSION""; ""REFERENCES""; ""ASTEROIDS DIMENSIONS AND THE TRUNCATED PARETO DISTRIBUTION""; ""Abstract""; ""1.Introduction""; ""2. StatisticalDistribution""; ""3.ApplicationtotheAsteroids"" ""4.SimulatingParetoTails"" ""4.1.Accretion""; ""4.2.Fragmentation""; ""4.2.1.Fractaldistributionoffragmentsize""; ""5.Conclusions""; ""References""; ""HILDA ASTEROIDS IN THE JUPITER NEIBORHOOD""; ""Abstract""; ""1.Introduction""; ""2.HildaAsteroidGroup""; ""3. DynamicalEvolutionofHildaAsteroidsRemovedfromtheResonance""; ""4. RelationwithJFCs""; ""4.1.TheRelationwithQuasi-HildasandtheSL9Case""; ""5.ImpactCrateringontheGalileanSystem""; ""6.Conclusion""; ""References""; ""ASTEROIDS APOPHIS AND 1950 DA: 1000 YEARS ORBIT EVOLUTION AND POSSIBLE USE""; ""ABSTRACT""; ""1. INTRODUCTION"" ""2. PROBLEM STATEMENT""

Sommario/riassunto

In this book, the authors present current research in the study of the classification, geology and exploration of asteroids and meteorites. Topics discussed include meteorites and their asteroidal parent bodies; the diversion and exploitation of ice-rich NEOs using the solar collector; radar characteristics of asteroid 33342 (1998 WT24); asteroid dimensions and the truncated pareto distribution; Hilda asteroids in the Jupiter neighborhood; and asteroid Apophis and 1950 DA.