

NEAR EARTH OBJECTS AS RESOURCES FOR SPACE INDUSTRIALIZATION

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1. INTRODUCTION

The Near Earth Asteroids are potential impact threats to Earth, but also a particularly accessible subset of them does provide potentially attractive targets for resources to support space industrialization. Robust technical and economic approaches to evaluation of the feasibility of proposed projects are necessary for assessment of such space mining ventures. This paper discusses the technical engineering and mission-planning choices and shows how the concept of probabilistic Net Present Value can be used to optimize these choices, and hence select between alternative asteroid mining mission designs.

The generic mission reviewed envisages a lightweight remote (teleoperated) or semiautonomous miner, recovering products such as water or nickel-iron metal, from highly-accessible NEAs, and returning it to Low Earth Orbit (LEO), for sale and use in LEO, using solar power and some of the recovered mass as propellant.

Some of the technologies needed to avert comet or asteroid impact are similar to those needed to recover the diverse resources contained in these bodies. Thus it is desirable to develop this technology, and asteroidal resources, both to achieve space industrialization, species security, and long term prosperity, and to build the capacity to avert disaster.

This paper reviews concepts for mining the Near-Earth Asteroids for supply of resources to future in-space industrial activities. It identifies Expectation Net Present Value as the appropriate measure for determining the technical and economic feasibility of a hypothetical asteroid mining venture, just as it is the appropriate measure for the feasibility of a proposed terrestrial mining venture. In turn, ENPV can obviously be used as a "design driver" to sieve the alternative options, in selection of target, mission profile, mining and processing methods, propulsion for return trajectory, and earth-capture mechanism.

2. POPULATION OF TARGET BODIES

Recent progress in asteroid search programs (especially LINEAR, www.ll.mit.edu/LINEAR/) has been spectacular. According to Dr David Morrison, in the latest issue of his NEO Newsletter (dmorrison@arc.nasa.gov), there are now about 1400 identified NEOs, defined as objects whose orbits have a perihelion less than or equal to 1.3 AU. Of these, about 300 are classified as PHAs (Potentially Hazardous Asteroids), meaning that their orbits come within 0.05 AU (7.5 million km) of the Earth's. Of the total 1400 known NEOs, some 500 are of absolute visual magnitude less than 18, and therefore nominally of diameter larger than 1 kilometre. This recently derived number is larger than had previously been considered likely.

Estimates based on the serendipitous rediscovery rate indicate that the total population of ">1 km bodies" within the NEAs is now at least 1000, and the total population of ">100 metre bodies" is now

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SJ Ball



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Asteroids Viorel Badescu, 2013-07-03 The Earth has limited material and energy resources while these resources in space are virtually unlimited Further development of humanity will require going beyond our planet and exploring of extraterrestrial resources and sources of unlimited power Thus far all missions to asteroids have been motivated by scientific exploration However given recent advancements in various space technologies mining asteroids for resources is becoming ever more feasible A significant portion of asteroids value is derived from their location the required resources do not need to be lifted at a great expense from the surface of the Earth Resources derived from Asteroid not only can be brought back to Earth but could also be used to sustain human exploration of space and permanent settlements in space This book investigates asteroids prospective energy and material resources It is a collection of topics related to asteroid exploration and utilization It presents past and future technologies and solutions to old problems that could become reality in our life time The book therefore is a great source of condensed information for specialists involved in current and impending asteroid related activities and a good starting point for space researchers inventors technologists and potential investors Written for researchers engineers and businessmen interested in asteroids exploration and exploitation Keywords Asteroids Asteroid exploration Asteroid exploitation Energy sources Space Resources Material Resources In Situ Resource Utilization Mining

Space Technology and Applications International Forum - STAIF 2008 Mohamed S. El-Genk, 2008-01-31 As the British French and Spanish Atlantic empires were torn apart in the Age of Revolution Portugal steadily pursued reforms to tie its American African and European territories more closely together Eventually after a period of revival and prosperity the Luso Brazilian world also succumbed to revolution which ultimately resulted in Brazil s independence from Portugal The first of its kind in the English language to examine the Portuguese Atlantic World in the period from 1750 to 1850 this book reveals that despite formal separation the links and relationships that survived the demise of empire entwined the historical trajectories of Portugal and Brazil even more deeply From constitutionalism to economic policy to the problem of slavery Portuguese and Brazilian statesmen and political writers laboured under the long shadow of empire as they sought to begin anew and forge stable post imperial orders on both sides of the Atlantic

Proceedings of the International Lunar Conference 2003/International Lunar Exploration Working Group 5--ILC2003/ILEWG 5 ,2004 [IDEEA One](#) ,1992

The Moon David Schrunk, 1999-08-10 This unique visionary and innovative book describes how the Moon could be colonised and developed as a platform for science industrialization and exploration of our Solar System and beyond Thirty years ago the world waited with baited breath to watch history in the making as man finally stepped onto the moon s surface In the last few years there has been growing interest in the idea of a return to the moon This book describes the reasons why we should now start lunar development and settlement and how this goal may be accomplished The authors all of whom are hugely experienced space scientists consider the rationale and steps necessary for establishing permanent bases on the

Moon Their innovative and scientific based analysis concludes that the Moon has sufficient resources for large scale human development Their case for development includes arguments for a solar powered electric grid and railroad creation of a utilities infrastructure habitable facilities scientific operations and the involvement of private enterprise with the public sector in the macroproject By transferring and adapting existing technologies to the lunar environment the authors argue that it will be possible to use lunar resources and solar power to build a global lunar infrastructure embracing power communication transportation and manufacturing This will support the migration of increasing numbers of people from Earth and realization of the Moon s scientific potential As an inhabited world the Moon is an ideal site for scientific laboratories dedicated to geosciences astronomy and life sciences and most importantly it would fulfil a role as a proving ground and launch pad for future Solar System exploration The ten chapters in this book go beyond the theoretical and conceptual With vision and foresight the authors offer practical means for establishing permanent bases on the Moon The book will make fascinating and stimulating reading for students in astronautics space science life sciences space engineering and technology as well as professional space scientists engineers and technologists in space projects *Energy Research Abstracts* ,1981

Who's who in America ,2003 **Who's Who in Science and Engineering 2008-2009** Who's Who Marquis,Marquis Who's Who,2007-12 **Mechanical Engineering** ,1961 **ASME Membership List** American Society of Mechanical Engineers,1972 **From Research to Resource Piloting Near-Earth Asteroids Through the Valley of Death** Dylan H. Cohen,2019 Can the resources of near Earth asteroids be profitably mined Near Earth asteroids NEAs contain water which can serve as a fuel in space and platinum group metals which are valuable on Earth The presence of these resources has prompted high valuations of the near Earth asteroid population but it is not immediately apparent if those valuations are accurate or if they can be realized This thesis developed the Valley of Death model to frame the challenges opposing the development of an asteroid mining industry This model poses the two following questions What is the cash flow of a water platinum group metal asteroid mining industry How can the Valley of Death be crossed to realize that cash flow The first question was answered in the affirmative for water with a Monte Carlo simulation of the near Earth asteroid population under resource content price and accessibility constraints To assess the cash flow of platinum group metals a basis of comparison was developed between large platinum rich near Earth asteroids and terrestrial mines This comparison demonstrated that while the high valuation of the asteroids is accurate the technical challenges of mining refining and transporting platinum render it unlikely to have a positive cash flow without dramatic technological advances that provide no immediate benefits To answer the second question the twin concepts of uncertainty reduction and technological advancement resting on a foundation of progress incentivization were developed Uncertainty reduction consists of clarifying the legal status of asteroid mining and identifying the precise content and location of near Earth asteroid resources Technological advancement is needed to mine water at scale and to accurately assess the costs of mining platinum group

metals Incentivizing both tasks possibly with prize competitions will enable the industry to traverse the Valley of Death This thesis concludes by discussing edge cases in asteroid mining which provide avenues for future research *Asteroid Mining Hopes* Aiden Feynman, AI, 2025-01-11 *Asteroid Mining Hopes* presents a comprehensive analysis of humanity's potential next industrial frontier extracting valuable resources from near Earth objects This thorough examination merges current aerospace capabilities with future technological prospects to evaluate the feasibility of mining operations in space The book uniquely bridges the gap between theoretical possibilities and practical implementation focusing on three critical aspects identifying resource rich asteroids engineering requirements for extraction and economic viability Through detailed analysis of data from missions like OSIRIS-REx and Hayabusa2 the book reveals promising targets rich in platinum group metals rare earth elements and water ice It explores fascinating technological developments in autonomous drilling systems and zero gravity refinement processes while honestly addressing the significant challenges these operations face The work draws from extensive interviews with aerospace companies and research institutions providing readers with current technological readiness assessments and prototype test results The book progresses logically from fundamental concepts of orbital mechanics and asteroid composition to complex engineering challenges and economic implications Its accessible yet technical approach makes it valuable for both aerospace professionals and interested observers of the space industry While acknowledging the substantial hurdles ahead the analysis suggests that decreasing launch costs and growing demand for rare materials could make asteroid mining economically viable within twenty years supported by detailed cost benefit analyses and risk assessments from industry sources

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