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Book review for "Asteroid Mining 101" Date of this review: 03 FEB 2015 The book itself is high quality and has clear, easy to read text and many color illustrations. The book is a follow-up of Mr. Lewis's earlier book "Mining the Sky" but the information here is much more complete, updated to what is known in 2014, and is much more technical.

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Asteroid Mining 101 Wealth For The New Space Economy

John Lewis, renowned author of popular science books, Rain of Iron and Ice, and Mining the Sky: Untold Riches from the Asteroids, Comets and Planets, has released his newest publication, Asteroid Mining 101: Wealth for a New Space Economy. Considered to be the worlds' foremost expert on Asteroids and Near Earth Objects, Dr. Lewis has created this comprehensive guide to Asteroid Mining.

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5.0 out of 5 stars A very important book. Reviewed in the United States on February 3, 2015. Verified Purchase. Book review for "Asteroid Mining 101". Date of this review: 03 FEB 2015. The book itself is high quality and has clear, easy to read text and many color illustrations.

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Asteroid Mining 101: Wealth for the New Space Economy. By John S. Lewis. Deep Space Industries, 2015. hardcover, 192 pp., illus. ISBN 978-0-9905842-0-9. US\$24.99. It's a busy week for space events. In Washington, much of the commercial space industry will gather for Satellite 2015, the annual conference devoted primarily to the satellite communications industry and related fields, including launch and satellite manufacturing.

The Space Review: Review: Asteroid Mining 101

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The emerging asteroid mining industry has extremely ambitious intentions. It is within the realm of possibility that their work may usher in a change in global economics as profound as the Industrial Revolution. As may be expected, press reports dealing with asteroid mining have been numerous, ranging in scope from short and breezy to broad and serious, and in quality from accurate to impressionistic to simply uninformed. There is good reason to be curious about what may be the biggest game-changer in human economic history. And there is good reason to look closely at the underlying science and engineering that form the foundation of this work.

This book produces convincing evidence that exploiting the potential of space could help solve many environmental and social issues affecting our planet, such as pollution, overcrowding, resource depletion and conflicts, economic inequality, social unrest, economic instability and unemployment. It also touches on the legal problems that will be encountered with the implementation of the new technologies and new laws that will need to be enacted and new organizations that will need to be formed to deal with these changes. This proposition for a space economy is not science fiction, but well within the remit of current or under development technologies. Numerous technologies are described and put together to form a coherent and feasible road map that, if implemented, could lead humankind towards a brighter future.

A unique, wide-ranging examination of asteroid exploration and our future in space Human travel into space is an enormously expensive and unforgiving endeavor. So why go? In this accessible and authoritative book, astrophysicist Martin Elvis argues that the answer is asteroid exploration, for the strong motives of love, fear, and greed. Elvis's personal motivation is one of scientific love--asteroid investigations may teach us about the composition of the solar system and the origins of life. A more compelling reason may be fear--of a dinosaur killer-sized asteroid hitting our planet. Finally, Elvis maintains, we should consider greed: asteroids likely hold vast riches, such as large platinum deposits, and mining them could provide both a new industry and a funding source for bolder space exploration. Elvis explains how each motive can be satisfied, and how they help one another. From the origins of life, to "space billiards," and space sports, Elvis looks at how asteroids may be used in the not-so-distant future.

Argues that the depletion of the earth's natural resources, as well as the overpopulation of the planet, are solvable problems by using technology that already exists or will exist in the near future

The book speaks to the need for a regulatory framework with regards to space resource utilization. In doing so, significant elements of the subject matter have been explored, taking into account the different phases of a space mission and the perspectives of the various actors and participants in the space arena. The book tackles the subject matter from a number of angles. An analysis of the current national and international governance frameworks is performed, with regards to resource extraction and utilization in space. The view of established and emerging space nations is analyzed next, specifically with extraction and utilization in mind, and in light of the new United State (US) Commercial Space Launch Competitiveness Act (CSLCA) of 2015. A brief analysis of the various budgets allocated to space exploration is given.

This text takes a focused and comprehensive look at mining data represented as a graph, with the latest findings and applications in both theory and practice provided. Even if you have minimal background in analyzing graph data, with this book you'll be able to represent data as graphs, extract patterns and concepts from the data, and apply the methodologies presented in the text to real datasets. There is a misprint with the link to the accompanying Web page for this book. For those readers who would like to experiment with the techniques found in this book or test their own ideas on graph data, the Web page for the book should be http://www.eecs.wsu.edu/MGD.

Asteroid mining is the exploitation of raw materials from asteroids and other minor planets, including near-Earth objects. Based on known terrestrial reserves, and growing consumption in both developed and developing countries, key elements needed for modern industry and food production could be exhausted on Earth within 50 to 60 years. In response, it has been suggested that platinum, cobalt and other valuable elements from asteroids may be mined and sent to Earth for profit, used to build solar-power satellites and space habitats, and water processed from ice to refuel orbiting propellant depots. Looking beyond the Milky Way, there are at least 2 trillion other galaxies in the observable universe. Space colonization can roughly be said to be possible when the necessary methods of space colonization become cheap enough to meet the cumulative funds that have been gathered for the purpose, in addition to estimated profits from commercial use of space. Intergalactic travel would either have to involve voyages lasting millions of years, or a possible faster than light propulsion method based on speculative physics, such as the Alcubierre drive. There are, however, no scientific reasons for stating that intergalactic travel is impossible in principle. Uploaded human minds or AI may be transmitted to other galaxies in the hope some intelligence there would receive and activate them.

THE NEW YORK TIMES BESTSELLER and #1 WALL STREET JOURNAL BESTSELLER Risky Is the New Safe is a different kind of book for a different kind of thinking—a thought-provoking manifesto for risk takers. It will challenge you to think laterally, question premises, and be a contrarian. Disruptive technology, accelerating speed of change and economic upheaval are changing the game. The same tired, old conventional thinking won't get you to success today. Risky Is the New Safe will change the way you look at everything! You'll view challenges—and the corresponding opportunities they provide—in entirely new and exciting ways. You'll recognize powerful new gateways to creating wealth. In this mind-bending book you'll discover: How mavericks like Steve Jobs, Richard Branson, and Mark Cuban think differently—and what you can learn from them; The six-month online course that could allow you to earn more than a Ph.D.; How social media changes branding and marketing forever, and what that means for you; What happens when holo-suites and virtual-reality sex come about, and how you need to prepare; The new religion of ideas: How to become an “idea generator” and declare as a free agent; and, What will cause the Euro, precious metals, and oceanfront real estate to collapse—and how that can make you rich!

? Since the Cold War, outer space has become of strategic importance for nations looking to seize the ultimate high ground. World powers establishing a presence there must consider, among other things, how they will conduct warfare in orbit. Leaders must dispense with "Buck Rogers" notions about operations in space and realize that policies there will have serious ramifications for geopolitics. How should nations view space? How should they fight there? What would space warfare look like and how should strategists approach it? Offering critical observations regarding this unique theater of international relations, a military professional explores the strategic implications as human affairs move beyond Earth's atmosphere.

Several project teams from NASA, ESA and other organizations have investigated the possibility of establishing a colony in orbit. They found that the Moon and near-Earth asteroids have enough materials available, that solar energy is readily available in large quantities. The advantages of this system are its proximity to the Earth and its lower escape velocity, which facilitates the exchange of goods and services.