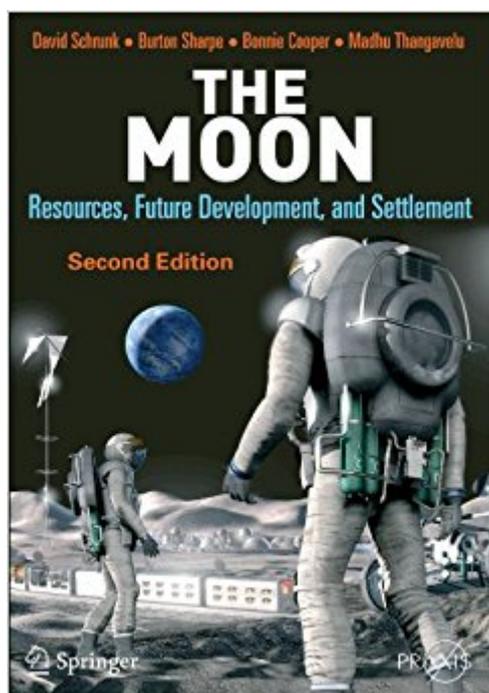


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# The Moon: Resources, Future Development And Settlement (Springer Praxis Books)



## Synopsis

This extraordinary book details how the Moon could be used as a springboard for Solar System exploration. It presents a realistic plan for placing and servicing telescopes on the Moon, and highlights the use of the Moon as a base for an early warning system from which to combat threats of near-Earth objects. A realistic vision of human development and settlement of the Moon over the next one hundred years is presented, and the author explains how global living standards for the Earth can be enhanced through the use of lunar-based generated solar power. From that beginning, the people of the Earth would evolve into a spacefaring civilisation.

## Book Information

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## Customer Reviews

This book is the best up-to-date introduction to lunar development, focusing on the primary technical infrastructure necessary to expand from an initial base via In Situ Resource Utilization (ISRU) to global development of what the authors term "Planet Moon". The book makes a clear case first for why we should do this, and then in quite detailed outline, how. While some technical components, such as remote robotic tele-operation, or lunar materials mining and processing, still require research and development work, nothing in this project is far from mundane things we already know how to do. The book isn't entirely self-consistent and the logical separation of topics sometimes seems a bit odd, but the range of material covered is satisfyingly broad: lunar topography and composition; railways, telecommunications and materials transport; requirements on construction

and chemical processing equipment; human-suitable habitats, life support, agriculture, and "cislunar" transport and logistics, and more. Beyond the technical discussion of the physical, chemical, and engineering issues are several sections of the book dealing with lunar government, including a proposal for creation of a "Lunar Economic Development Authority" (LEDA) following a port authority model, which looks extremely promising. At least as valuable as the 10 main chapters are the 20 appendixes, to which over half the book's pages are devoted. These appendixes, based heavily on work published elsewhere, bring a lot of information together in one place available for ready inter-comparison. Perhaps the most interesting is also the longest, Appendix E, which thoroughly covers the proposed processes for lunar oxygen extraction and related chemical processing. This book is an essential guide for anybody hoping to work on lunar development and participate in, as the authors phrase it, the "Planet Moon Project".

I've been reading a lot of books about the moon and it's exploration lately. Some deal with the Apollo past but also some about the (near) future. This book gives a good overview of the aspects involved in developing a permanent base on the moon. It even deals with long term development of cities containing thousands of people. The concepts presented are viable although it presents some concepts that are to far into the future to my likings. It not only presents the theoretical concepts but also the work that has been done in relevant research areas and the problems encountered. It is not science fiction. Not only does the book cover the technical challenges but it also deals with economical and political aspects of a lunar base. If you want to get a clear picture of the current state of the art of lunar development this book is a very good starting point.

Take your pick of "must buy", "immediate classic", or "ambitious Primer with Vision and Scope". Not a few people have taken a hard in depth look at what it will take to establish a permanent outpost on the Moon - as if that was an end all and be all goal in and of itself. In this new volume, Schrunck and his team are clearly out to do more. Seeing the Moon in the much wider light as a world with considerable mineral resources and its strategic location on the shoulder of Earth' gravity well, they outline a feasible, realistic scenario for the coming century. Their goal is not "a" moon base. It is a global integration of the Moon into Earth's economy. Looking at the Moon's resources, where they are located, and at which parts of the Moon have special advantages, they take us from a first south polar outpost step by step into a future when humans will be busy all over the Moon, and making money doing so. Their vision is grounded on established technologies, never depending on developments or breakthroughs that may or may not ever happen. On the airless Moon, good old

fashion electric railroads (eventually MagLev) will be the principal way of moving goods and materials from one part of the globe to another. Relying solely on solar power, they manage the long lunar nightspans by setting up grids that loop both poles at approximately 85° N and S, latitudes, depending on the terrain, of course. The Moon will produce power for Earth, and become the principal spaceport by which we open the rest of the Solar System and beyond. By the turn of the next century, hundreds of thousands of people, and maybe more, will live and work on the Moon. Profusely illustrated with B/W sketches, the authors take us through every well-reasoned and grounded step. For all of us interested in the Moon, this book is a must read. Do buy it!

In this updated second edition (seven years of updates!), the authors expand on the "Planet Moon" Project. We take a long, hard look at existing technologies and systems and visually depict what is possible for humanity to achieve on our nearest celestial neighbor, in the short term. While we base some of these designs on NASA plans, we fully expect multinational private capital and enterprises to drive lunar development. We believe, if we put our hearts and souls into the Planet Moon Project, the Moon could become the next frontier to establish a variety of peaceful, progressive, international, intercultural and interdisciplinary activities. Opening up such a new dimension in human pursuit will enable the creation of millions of new, imaginative and productive occupations in all walks of life, extending new horizons for human thought and activity. As the world becomes more interconnected and interdependent for resources, the Planet Moon Project, the authors believe, offers the inevitable "breakout" strategy. The only question is...which nation(s) is willing to lead us out of the cradle to our cosmic destiny?! So.....please buy the book and look at all the original artwork including those magnificent color plates. No warp drives here, just plain proven hard technology which the authors believe is sufficient to attain these results. Hope Hollywood movie directors use books like these for depicting our future in space.

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