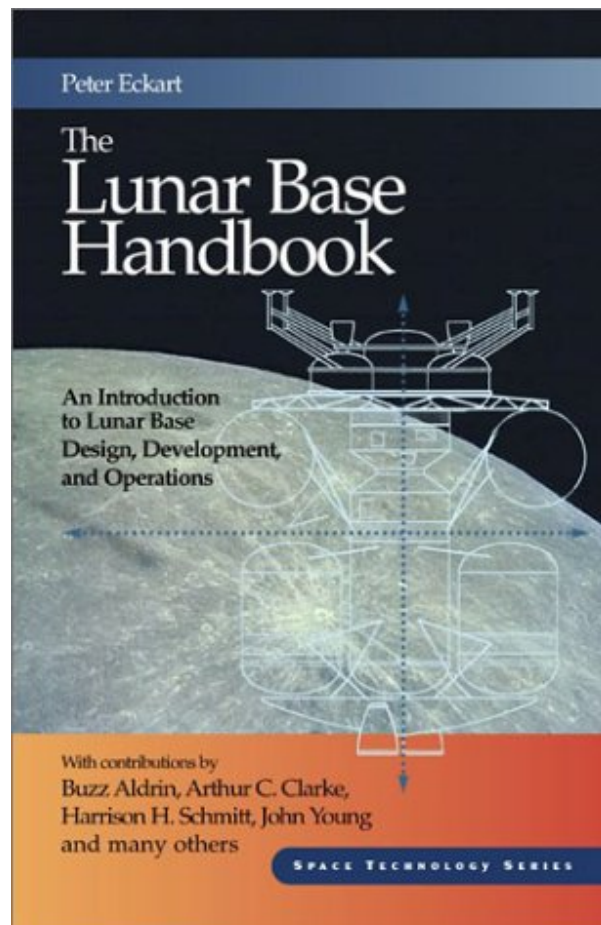


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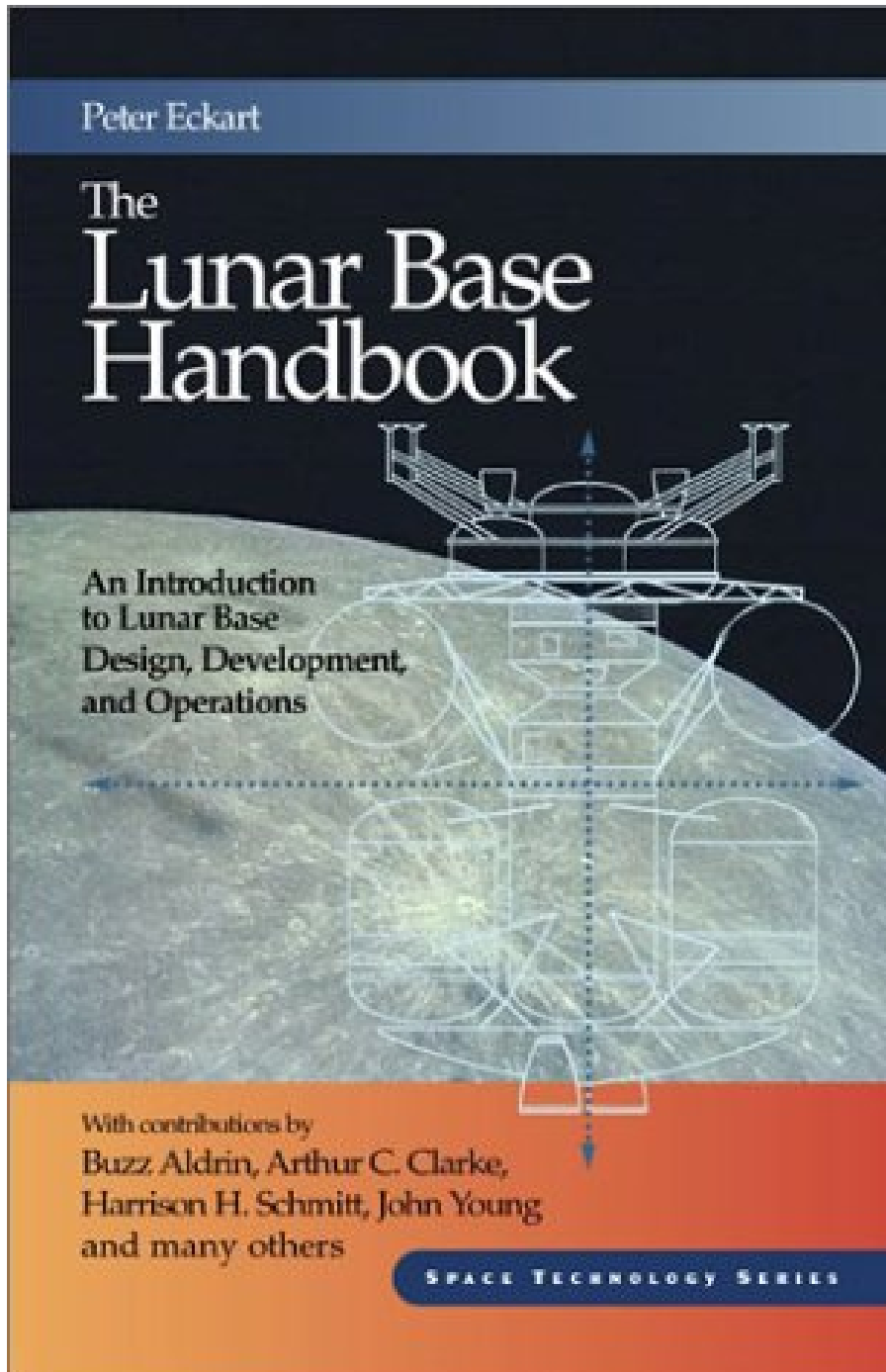
Peter Eckart

The Lunar Base Handbook

An Introduction
to Lunar Base
Design, Development,
and Operations

With contributions by
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Lunar Base Handbook provides an overview about the Moon and its environment, the current status of lunar base design, tools we need to design a lunar base, checklists and flow charts that outline the design process, and technological requirements of a lunar base.

The main audience for this book is engineers, but it is also interesting for scientists, managers, lawyers, undergraduates, and high school students, and readable for the interested layman.

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Start With This Book

By Brian

I started reading this book and nearly threw it down after just two chapters. There were numerous spelling and grammatical errors which initially made me question the validity of the material being presented. Fortunately I pressed on. This book, though not a masterpiece of English prose, is hands down the most understandable, comprehensive text on the subject that I have read. The book breaks down material from vastly diverse disciplines and explains them in a manner that a layman can understand. Prior to reading this book, I read Space Mission Analysis and Design (SMAD), also of the NASA Space Technology Series. I found that this book (The Lunar Base Handbook) presented the same topics as SMAD, but in a more understandable format. I found myself often reading a topic in The Lunar Base Handbook and then continuing my education in other books from the Space Technology Series such as SMAD. I highly recommend this book to anyone interested in lunar development or space exploration.

16 of 16 people found the following review helpful.

The Latest Engineering Concepts for Lunar Base Development

By John R. Keller

In this book, Peter Eckart has assembled the collective writings of many of the leaders who are developing advanced engineering and science concepts for a return to the moon and the establishment of a permanent lunar base, which is capable of exploring the moon in great detail. These writings are not reprints from a conference or a previously published paper, but a detailed summary of the work to date on a variety of subjects from the site selection of a lunar base and the transportation means to get to the moon, to the details regarding advanced exploration and regenerative life support systems. The book also includes the more

mundane systems needed to make a lunar base function, such as the thermal control system and the communication system.

While portions of this book maybe overly technical for some readers, there are numerous sections that provide a general overview of equipment, lunar exploration history, and transportation techniques. There are two sections, one written by Buzz Aldrin and one by Jack Schmidt that describe in great detail various aspects of lunar exploration. Typically, most astronauts authored writings found in books are simply a page or two. All in all, I couldn't find a topic that was omitted from the book.

I also conducted a comprehensive review of several sections of the book, which are related to my engineering area of expertise. Specifically, I reviewed the thermal control system, power system, EVA, and life support sections. In all these sections, I only found one error, which appeared to be a typo. The lone error leads me to believe that other sections were equally as error free.

In summary, I always enjoy reading books like these, because they show that even though the US government does not support going back to the moon, many individuals are still committed to returning people to the moon. Finally, regardless of your technical ability, you can learn a great deal from this book.

0 of 0 people found the following review helpful.

Almost a must have moon complete guide

By Jorge Luis Hevia Casanova

I have read and re-read this book so many times in many different chapters, as my final career project implies a power supply system for a moon base.

This book is great for almost every novice in space technology, and a guide for those used to such a technology.

The only big mistake I have found in this book is an incomplete knowledge of the biology loop, that spreads from the same author's book Spaceflight Life Support and Biospherics, specially covering Nitrogen's loop. Also few biological formulas are wrong (to be accurate in the third vital loop: carbohydrates) or quite incomplete (I think it was graph's mistypes) when considering Phosphorous. Excluding that few lacks, the whole book can be considered as a master's guide, and its worth a purchase.

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