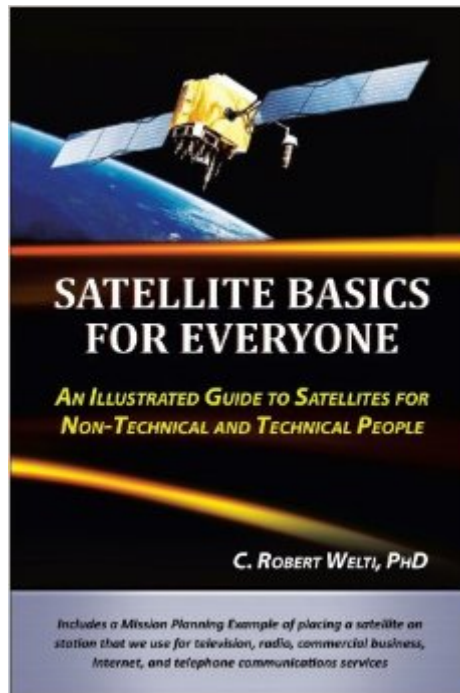


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# Satellite Basics For Everyone: An Illustrated Guide To Satellites For Non-Technical And Technical People



## Synopsis

Learn about satellites that affect us every day, how they work, and how we can place and keep them on orbit. *Satellite Basics for Everyone* presents an introduction and overview to satellites. It's written as clearly and understand

## Book Information

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## Customer Reviews

The author messes up the section on propulsion. He uses pounds (force) rather than slugs, pound-mass (mass) or kg. The section on the derivation of thrust is full of errors. The other chapters are ok but devoid of detailed derivations --- the equations are just given.

This book claims to be for the non-technical and technical person alike, but that is not true at all. I don't know any more about satellites after reading than I did before reading it. Maybe someone with basic knowledge can find it as a good overview, and an overview, with just the facts is all it is. There is no basic science in it, there is no history like some other reviewer claimed, and what facts there are, are given with no examples and no context. Chapter 3 makes an attempt to give a helpful sentence or two about one thing or another, but there are no helpful explanations about anything. I kept reading that the military uses satellite technology for our protection, but in what manner remains a mystery until the conclusion page. The military, according to the one page of conclusions, uses satellites to track enemy bases, etc. A better writer would have included a chapter about how this is done, giving real-life, declassified examples. If you are looking for terminology, look them up

on the internet. There is no reason to spend money on this book just for that reason.

Welti has managed to address a number of function and design issues related to satellites in a manner that is easily understood by the curious layman. If I knew someone who was interested in space or satellite technology I would put this book in their hands to whet their appetite.

I really enjoyed the book. As an adult just beginning a career in the satellite industry, I relied on the book to introduce me to the terminology, the technology, the history, etc - and it did all that very well. The first half of the book is the best at achieving these goals, in my opinion, as the second half of the book focuses more narrowly on communications satellites. A lot of the meat of the book ends up being about communications satellites specifically, rather than those with meteorological, earth observation, research, or navigation missions. Finally, my opinion is that the book is an exceptional snapshot of the CURRENT state of the satellites (rather than the future/outlook). It's perhaps a bit too focus on the present state of the satellite world and therefore I think the book is a little conservative. If the purpose of the book is to get people excited (!) about this stuff, readers will no doubt want to know what the author sees as the FUTURE of satellite technology and the satellite world - What happens next? Where is the technology going? What are the coolest things happening in the satellite technology world... let's get aspirational!

I rate this book a 5 star because I believe it was written in a manner that has universal appeal and applicability. The math is presented in a simplistic format so that even someone that doesn't possess the ability to comprehend it can derive it's meaning from the "plain talk" manner in which the author describes it. I have an M.S. in a non-engineering field, I gifted the book to a 10 year old grandson and a 14 year old grandson. we each derived pleasure from reading the book; each of us coming away from the experience with a level of new knowledge commensurate with our level of education to date. The important factor is that all three of us were enriched by reading Welti's book. I applaud Dr. Welti for his labor to explain complex processes in a lay manner, for the young people it certainly serves to plant that seminal curiosity that ultimately may well lead them to a career in math and science. It should be required reading for all our young students. Well done Welti!

We need more books like this to help lift our low world ranking in math and science, which is an indicator of our ability to compete in the global economy. I was impressed how Dr. Welti used numerous illustrations, examples, and clear explanations to make his material understandable to

students and laymen. His book is an excellent learning tool for students. He gives real life example applications of the math and science taught in grade school, high school, and college. I like how he clearly presented all his calculations. My grandkids really got into learning about satellites from this book and are leaning toward engineering careers. Many of my laymen friends are using this book as a learning and reference book to better understand space and satellite news stories.

I bought this book because I wanted to gain a broad understanding of satellite basics (satellite components, costs, orbital mechanics, operations, etc.) as quickly as possible. The title doesn't lie "I think it provided good introductory material.

I have to admit this book does offer a lot of basic technical information that is great for those trying to learn about satellites but it can get a little boring. Not a book you'd want to read in one sitting. Overall great data for those who just want a general idea.

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