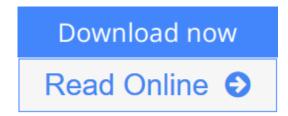


Near-Earth Laser Communications (Optical Science and Engineering)

From CRC Press



Near-Earth Laser Communications (Optical Science and Engineering) From **CRC Press**

Invented more than a hundred years ago by Alexander Graham Bell, the technology of free-space optical communications, or lasercom, has finally reached the level of maturity required to meet a growing demand for operational multi-giga-bit-per-second data rate systems communicating to and from aircrafts and satellites. Putting the emphasis on near-earth links, including air, LEO, MEO, and GEO orbits, Near-Earth Laser Communications presents a summary of important free-space laser communication subsystem challenges and discusses potential ways to overcome them.

This comprehensive reference provides up-to-date information on component and subsystem technologies, fundamental limitations, and approaches to reach those limits. It covers basic concepts and state-of-the-art technologies, emphasizing device technology, implementation techniques, and system trades. The authors discuss hardware technologies and their applications, and also explore ongoing research activities and those planned for the near future.

The analytical aspects of laser communication have been covered to a great extent in several books. However, a detailed approach to system design and development, including trades on subsystem choices and implications of the hardware selection for satellite and aircraft telecommunications, is missing. Highlighting key design variations and critical differences between them, this book distills decades' worth of experience into a practical resource on hardware technologies.



Download Near-Earth Laser Communications (Optical Science a ...pdf



Read Online Near-Earth Laser Communications (Optical Science ...pdf

Near-Earth Laser Communications (Optical Science and Engineering)

From CRC Press

Near-Earth Laser Communications (Optical Science and Engineering) From CRC Press

Invented more than a hundred years ago by Alexander Graham Bell, the technology of free-space optical communications, or lasercom, has finally reached the level of maturity required to meet a growing demand for operational multi-giga-bit-per-second data rate systems communicating to and from aircrafts and satellites. Putting the emphasis on near-earth links, including air, LEO, MEO, and GEO orbits, **Near-Earth Laser Communications** presents a summary of important free-space laser communication subsystem challenges and discusses potential ways to overcome them.

This comprehensive reference provides up-to-date information on component and subsystem technologies, fundamental limitations, and approaches to reach those limits. It covers basic concepts and state-of-the-art technologies, emphasizing device technology, implementation techniques, and system trades. The authors discuss hardware technologies and their applications, and also explore ongoing research activities and those planned for the near future.

The analytical aspects of laser communication have been covered to a great extent in several books. However, a detailed approach to system design and development, including trades on subsystem choices and implications of the hardware selection for satellite and aircraft telecommunications, is missing. Highlighting key design variations and critical differences between them, this book distills decades' worth of experience into a practical resource on hardware technologies.

Near-Earth Laser Communications (Optical Science and Engineering) From CRC Press Bibliography

Sales Rank: #1568884 in BooksPublished on: 2009-03-03Original language: English

• Number of items: 1

• Dimensions: 1.00" h x 6.10" w x 9.30" l, 1.60 pounds

• Binding: Hardcover

• 418 pages

<u>★ Download Near-Earth Laser Communications (Optical Science a ...pdf</u>

Read Online Near-Earth Laser Communications (Optical Science ...pdf

Download and Read Free Online Near-Earth Laser Communications (Optical Science and Engineering) From CRC Press

Editorial Review

About the Author Jet Propulsion Laboratory, Pasadena, California, USA

Users Review

From reader reviews:

Carissa Taylor:

The book Near-Earth Laser Communications (Optical Science and Engineering) can give more knowledge and information about everything you want. Why must we leave the best thing like a book Near-Earth Laser Communications (Optical Science and Engineering)? A number of you have a different opinion about guide. But one aim this book can give many data for us. It is absolutely correct. Right now, try to closer with your book. Knowledge or info that you take for that, you can give for each other; you are able to share all of these. Book Near-Earth Laser Communications (Optical Science and Engineering) has simple shape however you know: it has great and large function for you. You can search the enormous world by wide open and read a guide. So it is very wonderful.

William Marquis:

In this 21st hundred years, people become competitive in each and every way. By being competitive right now, people have do something to make these people survives, being in the middle of typically the crowded place and notice by surrounding. One thing that sometimes many people have underestimated it for a while is reading. Yep, by reading a e-book your ability to survive improve then having chance to endure than other is high. In your case who want to start reading a book, we give you that Near-Earth Laser Communications (Optical Science and Engineering) book as starter and daily reading book. Why, because this book is usually more than just a book.

Ellis Dunn:

Now a day people that Living in the era where everything reachable by match the internet and the resources inside it can be true or not involve people to be aware of each facts they get. How many people to be smart in having any information nowadays? Of course the correct answer is reading a book. Studying a book can help persons out of this uncertainty Information especially this Near-Earth Laser Communications (Optical Science and Engineering) book because this book offers you rich facts and knowledge. Of course the information in this book hundred pct guarantees there is no doubt in it you probably know this.

Ruth Morefield:

Are you kind of hectic person, only have 10 or even 15 minute in your morning to upgrading your mind expertise or thinking skill even analytical thinking? Then you are receiving problem with the book when compared with can satisfy your limited time to read it because all this time you only find guide that need more time to be study. Near-Earth Laser Communications (Optical Science and Engineering) can be your answer since it can be read by you actually who have those short extra time problems.

Download and Read Online Near-Earth Laser Communications (Optical Science and Engineering) From CRC Press #FQN2IJ4MA7P

Read Near-Earth Laser Communications (Optical Science and Engineering) From CRC Press for online ebook

Near-Earth Laser Communications (Optical Science and Engineering) From CRC Press Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Near-Earth Laser Communications (Optical Science and Engineering) From CRC Press books to read online.

Online Near-Earth Laser Communications (Optical Science and Engineering) From CRC Press ebook PDF download

Near-Earth Laser Communications (Optical Science and Engineering) From CRC Press Doc

Near-Earth Laser Communications (Optical Science and Engineering) From CRC Press Mobipocket

Near-Earth Laser Communications (Optical Science and Engineering) From CRC Press EPub

FQN2IJ4MA7P: Near-Earth Laser Communications (Optical Science and Engineering) From CRC Press