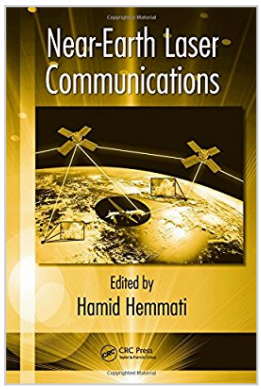

Near-Earth Laser Communications (Optical Science and Engineering)

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

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 Books
- Published on: 2009-03-03
- Original 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

Editorial Review

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

Users Review

From reader reviews:

Olga Snider:

In this 21st millennium, people become competitive in each way. By being competitive at this point, people have do something to make them survives, being in the middle of the crowded place and notice by simply surrounding. One thing that sometimes many people have underestimated the item for a while is reading. Yeah, by reading a e-book your ability to survive raise then having chance to endure than other is high. For yourself who want to start reading a new book, we give you this specific Near-Earth Laser Communications (Optical Science and Engineering) book as basic and daily reading reserve. Why, because this book is more than just a book.

Laura McLaughlin:

The book untitled Near-Earth Laser Communications (Optical Science and Engineering) contain a lot of information on it. The writer explains the girl idea with easy means. The language is very straightforward all the people, so do definitely not worry, you can easy to read the item. The book was compiled by famous author. The author gives you in the new age of literary works. It is possible to read this book because you can please read on your smart phone, or gadget, so you can read the book throughout anywhere and anytime. In a situation you wish to purchase the e-book, you can open up their official web-site and order it. Have a nice read.

Gregory Anderson:

Publication is one of source of information. We can add our knowledge from it. Not only for students but in addition native or citizen will need book to know the upgrade information of year in order to year. As we know those ebooks have many advantages. Beside most of us add our knowledge, can also bring us to around the world. By book Near-Earth Laser Communications (Optical Science and Engineering) we can have more advantage. Don't one to be creative people? To become creative person must love to read a book. Just simply choose the best book that acceptable with your aim. Don't end up being doubt to change your life with that book Near-Earth Laser Communications (Optical Science and Engineering). You can more inviting than now.

Thomas Pilcher:

Many people said that they feel bored when they reading a e-book. They are directly felt it when they get a half elements of the book. You can choose often the book Near-Earth Laser Communications (Optical Science and Engineering) to make your reading is interesting. Your skill of reading talent is developing when you just like reading. Try to choose simple book to make you enjoy to study it and mingle the opinion about book and examining especially. It is to be first opinion for you to like to open a book and read it. Beside that the reserve Near-Earth Laser Communications (Optical Science and Engineering) can to be your new friend when you're really feel alone and confuse with the information must you're doing of these time.

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

02ZHXBD593U: Near-Earth Laser Communications (Optical Science and Engineering) From CRC Press