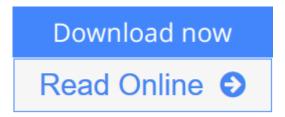


A System Engineering Approach to Imaging (SPIE Press Monograph Vol. PM38)

By Norman S. Kopeika



A System Engineering Approach to Imaging (SPIE Press Monograph Vol. PM38) By Norman S. Kopeika

This textbook addresses imaging from the system engineering point of view, examining advantages and disadvantages of imaging in various spectral regions. Focuses on imaging principles and system concepts, rather than devices. Intended as a senior-year undergraduate or graduate level engineering textbook. A solution manual is included.

Contents:

- Electromagnetic Waves and Rays
- Imaging
- Radiometry and Photometry
- Sources of Optical Radiation
- Noise
- Detector Concepts and Fundamentals
- Diffraction
- Diffraction-Limited Imaging
- Modulation Contrast Function
- Contrast-Limited Resolution and Target Acquisition
- Noise-Limited Imaging and Target Acquisition
- Human Visual System MTF and Threshold Contrast
- Imaging Devices
- Optical Transfer Functions for Image Motion and Vibration
- Optical Properties of the Atmosphere
- Turbulence MTF
- Aerosol MTF
- Image Restoration
- Effects of Atmospheric Blur and Image Restoration on Target Acquisition



Download A System Engineering Approach to Imaging (SPIE Pre ...pdf

Read Online A System Engineering Approach to Imaging (SPIE P ...pdf

A System Engineering Approach to Imaging (SPIE Press Monograph Vol. PM38)

By Norman S. Kopeika

A System Engineering Approach to Imaging (SPIE Press Monograph Vol. PM38) By Norman S. Kopeika

This textbook addresses imaging from the system engineering point of view, examining advantages and disadvantages of imaging in various spectral regions. Focuses on imaging principles and system concepts, rather than devices. Intended as a senior-year undergraduate or graduate level engineering textbook. A solution manual is included.

Contents:

- Electromagnetic Waves and Rays
- Imaging
- Radiometry and Photometry
- Sources of Optical Radiation
- Noise
- Detector Concepts and Fundamentals
- Diffraction
- Diffraction-Limited Imaging
- Modulation Contrast Function
- Contrast-Limited Resolution and Target Acquisition
- Noise-Limited Imaging and Target Acquisition
- Human Visual System MTF and Threshold Contrast
- Imaging Devices
- Optical Transfer Functions for Image Motion and Vibration
- Optical Properties of the Atmosphere
- Turbulence MTF
- Aerosol MTF
- Image Restoration
- Effects of Atmospheric Blur and Image Restoration on Target Acquisition

A System Engineering Approach to Imaging (SPIE Press Monograph Vol. PM38) By Norman S. Kopeika Bibliography

• Sales Rank: #1611811 in Books

• Published on: 1998-03-09

• Ingredients: Example Ingredients

• Original language: English

• Number of items: 1

• Dimensions: 10.50" h x 7.50" w x 1.75" l, 3.25 pounds

• Binding: Hardcover

• 704 pages

▶ Download A System Engineering Approach to Imaging (SPIE Pre ...pdf

Read Online A System Engineering Approach to Imaging (SPIE P ...pdf

Download and Read Free Online A System Engineering Approach to Imaging (SPIE Press Monograph Vol. PM38) By Norman S. Kopeika

Editorial Review

Users Review

From reader reviews:

Shawn Macdonald:

What do you concerning book? It is not important with you? Or just adding material when you want something to explain what your own problem? How about your spare time? Or are you busy man? If you don't have spare time to complete others business, it is gives you the sense of being bored faster. And you have time? What did you do? Everybody has many questions above. They should answer that question because just their can do in which. It said that about e-book. Book is familiar in each person. Yes, it is appropriate. Because start from on jardín de infancia until university need this A System Engineering Approach to Imaging (SPIE Press Monograph Vol. PM38) to read.

Beatrice Raybon:

This A System Engineering Approach to Imaging (SPIE Press Monograph Vol. PM38) book is not really ordinary book, you have after that it the world is in your hands. The benefit you receive by reading this book is information inside this book incredible fresh, you will get data which is getting deeper an individual read a lot of information you will get. This particular A System Engineering Approach to Imaging (SPIE Press Monograph Vol. PM38) without we comprehend teach the one who reading it become critical in thinking and analyzing. Don't always be worry A System Engineering Approach to Imaging (SPIE Press Monograph Vol. PM38) can bring whenever you are and not make your case space or bookshelves' come to be full because you can have it in the lovely laptop even cellphone. This A System Engineering Approach to Imaging (SPIE Press Monograph Vol. PM38) having great arrangement in word and also layout, so you will not really feel uninterested in reading.

Joshua Atkins:

Many people spending their time by playing outside using friends, fun activity using family or just watching TV all day every day. You can have new activity to invest your whole day by examining a book. Ugh, do you think reading a book can actually hard because you have to bring the book everywhere? It fine you can have the e-book, taking everywhere you want in your Smart phone. Like A System Engineering Approach to Imaging (SPIE Press Monograph Vol. PM38) which is keeping the e-book version. So, why not try out this book? Let's view.

James Pitts:

As we know that book is essential thing to add our understanding for everything. By a e-book we can know

everything we wish. A book is a group of written, printed, illustrated or maybe blank sheet. Every year ended up being exactly added. This e-book A System Engineering Approach to Imaging (SPIE Press Monograph Vol. PM38) was filled about science. Spend your spare time to add your knowledge about your scientific disciplines competence. Some people has diverse feel when they reading a new book. If you know how big benefit from a book, you can sense enjoy to read a reserve. In the modern era like today, many ways to get book that you wanted.

Download and Read Online A System Engineering Approach to Imaging (SPIE Press Monograph Vol. PM38) By Norman S. Kopeika #F2ZNCYLQOPE

Read A System Engineering Approach to Imaging (SPIE Press Monograph Vol. PM38) By Norman S. Kopeika for online ebook

A System Engineering Approach to Imaging (SPIE Press Monograph Vol. PM38) By Norman S. Kopeika 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 A System Engineering Approach to Imaging (SPIE Press Monograph Vol. PM38) By Norman S. Kopeika books to read online.

Online A System Engineering Approach to Imaging (SPIE Press Monograph Vol. PM38) By Norman S. Kopeika ebook PDF download

A System Engineering Approach to Imaging (SPIE Press Monograph Vol. PM38) By Norman S. Kopeika Doc

A System Engineering Approach to Imaging (SPIE Press Monograph Vol. PM38) By Norman S. Kopeika Mobipocket

A System Engineering Approach to Imaging (SPIE Press Monograph Vol. PM38) By Norman S. Kopeika EPub

F2ZNCYLQOPE: A System Engineering Approach to Imaging (SPIE Press Monograph Vol. PM38) By Norman S. Kopeika