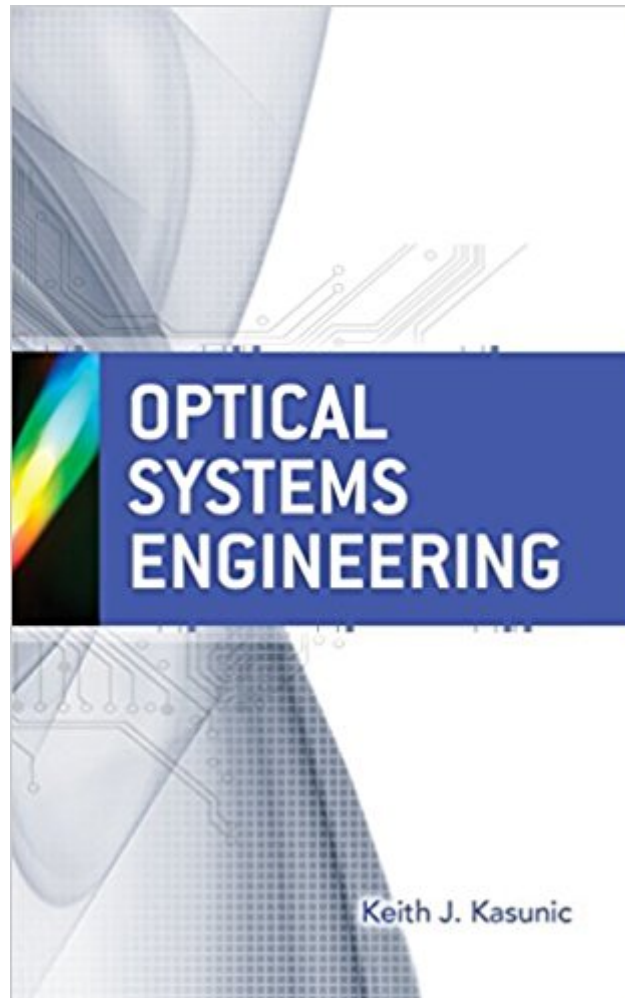




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Optical Systems Engineering



Synopsis

A PRACTICAL GUIDE TO OPTICAL SYSTEM DESIGN and DEVELOPMENT Optical Systems Engineering emphasizes first-order, system-level estimates of optical performance. Building on the basic principles of optical design and engineering, the book uses numerous practical examples to illustrate the essential, real-world processes such as requirements analysis, feasibility and trade studies, subsystem interfaces, error budgets, requirements flow-down and allocation, component specifications, and vendor selection. Filled with detailed diagrams and photographs, this is an indispensable resource for anyone involved in developing optical, electro-optical, and infrared systems. Optical Systems Engineering covers:

- Systems engineering
- Geometrical optics
- Aberrations and image quality
- Radiometry
- Optical sources
- Detectors and focal plane arrays
- Optomechanical design

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Customer Reviews

Keith J. Kasunic has more than 25 years of experience developing optical, electro-optical, infrared, and laser systems. He holds a Ph.D. in Optical Sciences from the University of Arizona, an MS in Mechanical Engineering from Stanford University, and a BS in Mechanical Engineering from MIT. He has worked for or been a consultant to a number of organizations, including Lockheed Martin, Ball Aerospace, Sandia National Labs, Nortel Networks, and Bookham. He is currently the Technical Director of Optical Systems Group, LLC. He is also an Adjunct Professor at Univ. of

Central Florida's CREOL - The College of Optics and Photonics, as well as an Affiliate Instructor with Georgia Tech's SENSIAC and an Instructor for the Optical Engineering Certificate Program at Univ. of California Irvine.

Promptly arrived and in perfect condition. The book has a marvelous way of describing what can be at times difficult concepts that I have needed to learn while working in the industry. It has also provided me insight into methods so far as one looking to further my career in Optical Engineering and Optical Physics that I had only heard mentioned by professors and others. It's great to see so many of the lessons I had to learn the hard way in print and I look forward to referencing this book for years to come

Fantastic book. I am slowly working my way through it. I have been working in this field for a long time and I have found the text to be a great review and very accessible. I primarily do optics-mechanical work, so it's been great to read through the focal plane stuff and also other chapters on topics that I am fully aware of, but don't work in every day.

Very nice read. I think it's a good complement to a formal education, giving real world context to what one would learn in an optics program and helping to build intuition for real world systems.

Excellent overview of optical engineering that can be used by experts and beginners.

Optical Systems Engineering is dedicated to "anyone who finds this book useful." That should cover a large audience of optical science majors looking for a practical textbook on the subject. It should also include a large number of lens designers and optical engineers who would be interested in an accessible overview of the complete systems approach to optical engineering. Optical Systems Engineering is just what it says it is; a text that covers the entire systems approach from geometrical lens design and radiometry through optical sources and detectors, focal plane arrays, and optomechanical design considerations. Lens designers looking for greater depth in the optical design area should look to texts such as Optical System Design by Robert Fischer, et al., but those texts do not cover the systems engineering discipline. For an accessible introduction to optical systems engineering, either as a classroom textbook, or as a reference text, you will not find a better example than Keith Kasunic's Optical Systems Engineering. Sandalphon, PhD in Optical Sciences, CEO of Cinnabar Optics LLC

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