



# Optical Systems Engineering (Electronics)

By Keith Kasunic

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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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### **About the Author**

**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.

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