

# Modern Optical Engineering, 4th Ed.

By Warren J. Smith



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# The Latest Advances in Optical Engineering and Lens Technology

Long-established as the definitive optics text and reference, *Modern Optical Engineering* has been completely revised and updated to equip you with all the latest optical and lens advances. The Fourth Edition now contains cutting-edge information on optical engineering theory, design, and practice, including new chapters on ray tracing, optical system design, and third-order aberration theory.

Written by the renowned optical scientist Warren J. Smith, this state-of-the-art guide provides unsurpassed coverage of image formation, basic optical devices, image evaluation, fabrication and testing methods, and more. Comprehensive and up-to-date, *Modern Optical Engineering* features:

- The latest information on optical engineering theory, design, and practice
- Over 150 detailed illustrations
- New to this edition: new coverage of ray tracing, optical system design, and third-order aberration theory; new lens designs; new optical design software; and new problems and exercises **Inside This Updated Optical Engineering Classic** 
  - Image formation Aberrations Prisms and mirrors The eye Stops and apertures Optical materials Interference coatings Radiometry and photometry Basic optical devices Optical systems Ray tracing Third-order aberration theory Image evaluation Design of optical systems 44 lens designs Optics fabrication and testing





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# **Editorial Review**

About the Author

Warren J. Smith (Carlsbad, CA) is Chief Scientist at Kaiser Electro-Optics and an independent consultant. He is one of the most widely known writers and educators in optical design, the author of three editions of Modern Optical Engineering, as well as Modern Lens Design and Practical Optical System Layout.

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