



Optics and Photonics: An Introduction

By F. Graham Smith, Terry A. King, Dan Wilkins

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The Second Edition of this successful textbook provides a clear, well-written introduction to both the fundamental principles of optics and the key aspects of photonics to show how the subject has developed in the last few decades, leading to many modern applications. *Optics and Photonics: An Introduction, Second Edition* thus provides a complete undergraduate course on optics in a single integrated text, and is an essential resource for all undergraduate physics, science and engineering students taking a variety of optics based courses.

Specific changes for this edition include:

- New material on modern optics and photonics
- Rearrangement of chapters to give a logical progression, comprising groups of chapters on geometric optics, wave optics and photonics
- Many more worked examples and problems
- Substantial revisions to chapters on Holography, Lasers and the Interaction of Light with Matter

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Bibliography

- Sales Rank: #3520762 in Books
- Published on: 2007-05-29
- Original language: English
- Number of items: 1
- Dimensions: 9.74" h x 1.15" w x 7.54" l, 2.52 pounds
- Binding: Paperback
- 516 pages

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Editorial Review

From the Back Cover

The second edition of this successful textbook provides a clear, well-written introduction to both the fundamental principles of optics and the key aspects of photonics to show how the subject has developed in the last few decades, leading to many modern applications. The book thus provides a complete undergraduate course on optics in a single integrated text. The new edition has been completely updated and specific important changes include:

- New material on modern optics and photonics.
- A rearrangement of chapters to give a logical progression comprising groups of chapters on geometric optics, wave optics and photonics.
- Many more worked examples and problems.

In addition, substantial revisions have been made to chapters on holography, lasers and the interaction of light with matter. For this edition Smith and King have been joined by a new co-author, Professor Dan Wilkins from the University of Nebraska at Omaha, who has many years experience of teaching optics courses.

This balanced, practical, modern introduction to optics and photonics and will prove invaluable to students taking optics courses within science and engineering.

About the Author

Sir Francis Graham Smith. Old School House, Henbury, Macclesfield, Cheshire SK11 9PH, UK
Now retired, Graham Smith has had a distinguished career in radio astronomy having held the post of Astronomer Royal 1982 – 1990, and most recently was Langworthy Professor of Physics at Manchester University.

Professor Terry King. School of Physics & Astronomy, University of Manchester, Manchester M13 9PL, UK

Currently head of the Laser Photonics Group, Terry King has many years experience in research, teaching and consultancy.

Professor Daniel Wilkins. Department of Physics, University of Nebraska, Omaha, NE 68182-0266, USA
Dan Wilkins holds the Milo Bail Chair of Physics at Nebraska and has taught optics and a wide variety of undergraduate courses for many years. His main research focus is general relativity theory.

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