



# Nonlinear Optics and Photonics

*Guang S. He*

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## **Nonlinear Optics and Photonics** Guang S. He

This book provides a comprehensive presentation on most of the major topics in nonlinear optics and photonics, with equal emphasis on principles, experiments, techniques, and applications. It covers many major new topics including optical solitons, multi-photon effects, nonlinear photoelectric effects, fast and slow light, and Terahertz photonics.

Chapters 1-10 present the fundamentals of modern nonlinear optics, and could be used as a textbook with problems provided at the end of each chapter. Chapters 11-17 cover the more advanced topics of techniques and applications of nonlinear optics and photonics, serving as a highly informative reference for researchers and experts working in related areas. There are also 16 pages of color photographs to illustrate the visual appearances of some typical nonlinear optical effects and phenomena.

The book could be adopted as a textbook for both undergraduates and graduate students, and serve as a useful reference work for researchers and experts in the fields of physics, quantum electronics, and laser technology.

To request a copy of the Solutions Manual, visit: [//global.oup.com/uk/academic/physics/admin/solutions](http://global.oup.com/uk/academic/physics/admin/solutions)

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