



# Principles of Photonics

By Jia-Ming Liu

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## Principles of Photonics By Jia-Ming Liu

With this self-contained and comprehensive text, students will gain a detailed understanding of the fundamental concepts and major principles of photonics. Assuming only a basic background in optics, readers are guided through key topics such as the nature of optical fields, the properties of optical materials, and the principles of major photonic functions regarding the generation, propagation, coupling, interference, amplification, modulation, and detection of optical waves or signals. Numerous examples and problems are provided throughout to enhance understanding, and a solutions manual containing detailed solutions and explanations is available online for instructors. This is the ideal resource for electrical engineering and physics undergraduates taking introductory, single-semester or single-quarter courses in photonics, providing them with the knowledge and skills needed to progress to more advanced courses on photonic devices, systems and applications.

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## **Principles of Photonics** By Jia-Ming Liu Bibliography

- Rank: #1792924 in eBooks
- Published on: 2016-08-19
- Released on: 2016-08-30
- Format: Kindle eBook

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### Review

'[Principles of Photonics] is an excellent textbook ... The book would also be suitable for physics students. ... The volume carries readers from the nature of optical fields and the properties of optical materials, through to principles of major photonics functions including the generation, propagation, amplification and detection of optical waves. Readers will thus gain a firm foundation for future forays into photonics devices and systems.' K. Alan Shore, Optics and Photonics News

### About the Author

Jia-Ming Liu is Distinguished Professor of Electrical Engineering at the University of California, Los Angeles. Professor Liu has published over 250 scientific papers and holds 12 US patents, and is the author of Photonic Devices (Cambridge, 2005). He is a fellow of the Optical Society of America, the American Physical Society, the IEEE, and the Guggenheim Foundation.

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