



Photonic Devices

By Jia-ming Liu

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Covering every major photonic device, this textbook strikes a careful balance between theoretical and practical concepts. The devices it covers include optical fibers, couplers, electro-optic devices, magneto-optic devices, lasers, and photodetectors. The book is well-suited as a text for senior undergraduate and graduate courses, as well as a device-driven engineering reference for professionals.

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Editorial Review

Review

"The book is a welcome addition to the field of photonic engineering and is highly recommended as a suitable text for advanced undergraduate and graduate courses in this area." Nicolaas Bloembergen, University of Arizona; Nobel Laureate, Physics, 1981

"Jia-Ming Liu has been thorough in his treatment of this complex subject...In all parts the treatment of the subject is comprehensive and mathematical, but also quite readable with a myriad of diagrams helping to illustrate the points made. The work is aimed at undergraduate and postgraduate students looking to specialize in this field, but will be a useful text for any engineer dealing with these devices."

Philip Bartholemew, IEE Communications Engineer

"This book is excellent."

Professor H. Hamam and Professor M. Guizani

"Liu offers a comprehensive treatment of photonic devices that are suitable for use in optical communications technology."

Choice

About the Author

Jia-Ming Liu is Professor of Electrical Engineering at the University of California, Los Angeles. He received his PhD degree in applied physics from Harvard University in 1982. His research interests are in the areas of non-linear optics, ultrafast optics, photonic devices, optical wave propagation, nonlinear laser dynamics and chaotic communications. Dr Liu has written more than 150 scientific publications and holds 8 US patents. He is a fellow of the Optical Society of America.

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