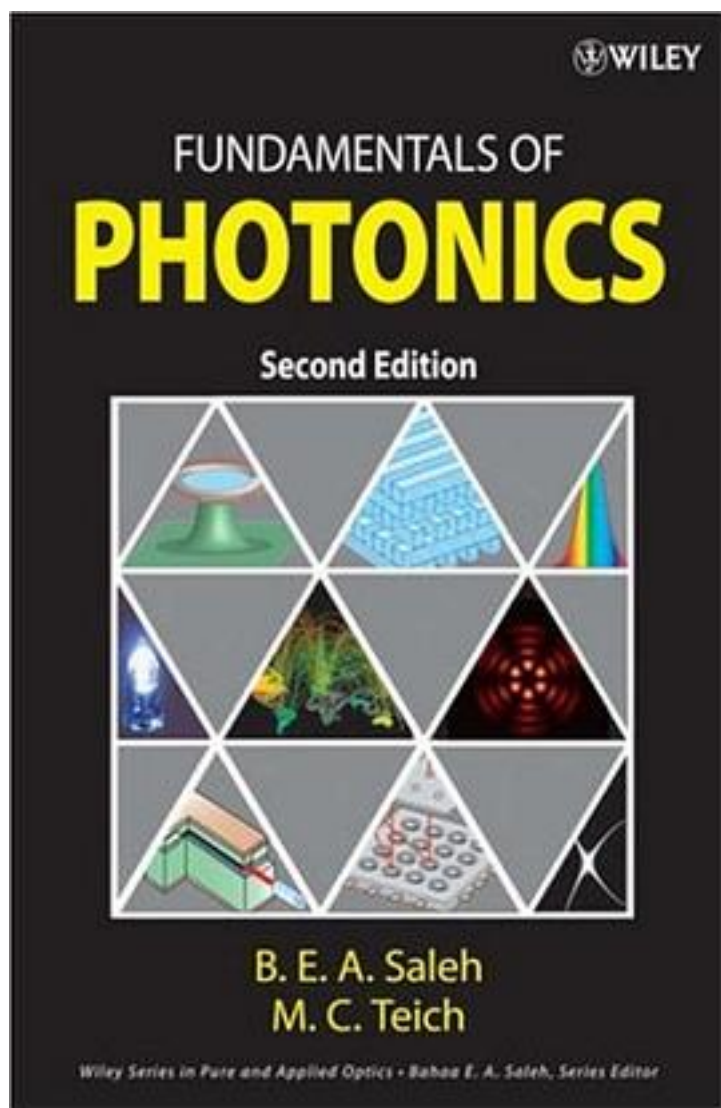


Fundamentals of Photonics



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出版者:Wiley-Interscience

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Now in a new full-color edition, Fundamentals of Photonics, Second Edition is a self-contained and up-to-date introductory-level textbook that thoroughly surveys this rapidly expanding area of engineering and applied physics. Featuring a logical blend of theory and applications, coverage includes detailed accounts of the primary theories of light, including ray optics, wave optics, electromagnetic optics, and photon optics, as well as the interaction of photons and atoms, and semiconductor optics. Presented at increasing levels of complexity, preliminary sections build toward more advanced topics,

such as Fourier optics and holography, guided-wave and fiber optics, semiconductor sources and detectors, electro-optic and acousto-optic devices, nonlinear optical devices, optical interconnects and switches, and optical fiber communications. Each of the twenty-two chapters of the first edition has been thoroughly updated. The Second Edition also features entirely new chapters on photonic-crystal optics (including multilayer and periodic media, waveguides, holey fibers, and resonators) and ultrafast optics (including femtosecond optical pulses, ultrafast nonlinear optics, and optical solitons). The chapters on optical interconnects and switches and optical fiber communications have been completely rewritten to accommodate current technology. Each chapter contains summaries, highlighted equations, exercises, problems, and selected reading lists. Examples of real systems are included to emphasize the concepts governing applications of current interest.

作者介绍:

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标签

光子学

photonics

物理

光学

optics

美国

机器

扫盲

评论

too hard for those without a background in applied physics or optics..at least the case for me.

见书评

老师推荐了好几次说让我一定要买这本书，很厚内容很全很清楚，还在学习中

忒贵了点儿吧。。没读完，不用再看了吧。

很棒的光学词典，遇到不懂的概念直接查

好几个老师都推荐过 当时上学时的主要参考书之一 就是太贵了 至今都没有一本在手
@ArielJi

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书评

This is quite a book that is as encyclopedic and informative in optics, nearly a full range of the most up-to-date areas. How come a reader write something like acknowledgements? Finally, Special thanks to Prof. Tian Yang. 'You are welcome to drop by whe...

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