

Photonics Essentials



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著者:Pearsall, Thomas P.

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An Enlightening Guide to Photonics This unique book teaches photonics through the hands-on measurement techniques common to all photonic devices. Perfect for students and engineers looking for practical expertise rather than abstract theory, this tutorial does more than explain the workings of photonic applications in standard devices like lasers and photodetectors--it offers worked examples of measurement and characterization problems. Filled with these real-world examples that feature commercially available instruments, this practice-based book enables you to analyze, characterize, and handle any kind of photonic device. Photonics Essentials, Second Edition covers:

- Properties of electrons and photons
- Photodiodes
- Electrical response time of diodes
- Photoconductivity
- Light-emitting diodes
- Organic light-emitting diodes
- Lasers
- Direct modulation of laser diodes
- Current- and capacitance-voltage measurements
- Optical fibers and fiber amplifiers
- Optical characterization

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