

## Quantum Electronics for Atomic Physics (Oxford Graduate Texts)

Warren Nagourney



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Quantum Electronics for Atomic Physics provides a course in quantum electronics for researchers in atomic physics. The book covers the usual topics, such as Gaussian beams, cavities, lasers, nonlinear optics and modulation techniques, but also includes a number of areas not usually found in a textbook on quantum electronics. It includes such practical matters as the enhancement of nonlinear processes in a build-up cavity, impedance matching into a cavity, laser

frequency stabilization (including servomechanism theory), astigmatism in ring cavities, and atomic/molecular spectroscopic techniques for the generation of a discriminant for laser frequency locking. A number of very recent developments are discussed, such as fiber lasers and frequency metrology using femtosecond lasers. Problem sets are included at the end of each chapter.

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