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It includes new treatments of photodetection, quantum amplifier theory, non-Markovian quantum stochastic processes, quantum input--output theory, and positive P-representations. It is the first book in which quantum noise is described by a mathematically complete theory in a form that is also suited to practical applications.

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Quantum noise (or photon noise, or short noise, or Poisson noise) is one considered in detail in the previous section (eqs. (4.11) – (4.16)). In Example 4.1 the light source has constant emission rate, however, the experimentally available value is the number of photons measured in a limited time interval, which is the random value by its nature. This type of noise cannot be eliminated when dealing with quantum objects (but in some applications can be reduced to

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negligible level).

Quantum Noise - an overview | ScienceDirect Topics

In physics, quantum noise refers to the uncertainty of a physical quantity that is due to its quantum origin. In certain situations, quantum noise appears as shot noise; for example, most optical communications use amplitude modulation, and thus, the quantum noise appears as shot noise only. For the case of uncertainty in the electric field in some lasers, the quantum noise is not just shot ...

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Abstract. A single mode dye laser model with two stochastically fluctuating forces representing pump and quantum fluctuations is discussed. In extension to a previous paper we investigate the different influences of colored pump noise and white quantum fluctuations on the laser light statistics. The corresponding two-variable Fokker-Planck equation is solved by means of matrix continued fractions.

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