Electronic Noise And Fluctuations In Solids

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Electronic Noise And Fluctuations In

This book looks at the physics of electronic fluctuations (noise) in solids. The author emphasizes many fundamental experiments that have become classics: physical mechanisms of fluctuations, and the nature and magnitude of noise. He also includes the most comprehensive and complete review of flicker (1/f) noise in the literature.

Electronic Noise and Fluctuations in Solids by Sh. Kogan ...

This book is devoted to the physics of electronic fluctuations (noise) in solids and covers almost all important examples of this phenomenon. It is comprehensive, intelligible and well illustrated. Emphasis is given to the main concepts, to physical mechanisms of fluctuations, and to conclusions on the nature and magnitude of noise.

Electronic Noise and Fluctuations in Solids: Kogan, Sh ...

In 1925 J.B. Johnson, studying the current fluctuations of electronic emission in a thermionic tube with a simple technique, found, apart from the shot noise whose spectral density was independent of frequency and was in agreement with the Schottky formula (1.5.10) (Schottky, 1918), also a noise whose spectral density increased with decreasing frequency f (Johnson, 1925). Schottky (1926) suggested that this last noise arises from slow random changes of the thermocathode's surface, and ...

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Electronic Noise and Fluctuations in Solids | Kogan Sh ...

Electronic Noise - an overview | ScienceDirect Topics Noise and Fluctuations Control in Electronic Devices is the first single reference source to bring together the latest aspects of noise research for a wide range of multidisciplinary audiences. Noise and Fluctuations Control in Electronic Devices

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The Boltzmann-Langevin equation; 17. Current fluctuations and noise temperature; 18. Current fluctuations and diffusion in a gas of hot electrons;

19. One-time correlation in nonequilibrium gases; 20. Intervalley noise in multivalley semiconductors; 21. Noise of hot electrons emitting optical phonons in the streaming regime; 22.

Electronic Noise and Fluctuations in Solids - NASA/ADS
Shot noise in electronic devices results from unavoidable random statistical fluctuations of the electric current when the charge carriers (such as electrons) traverse a gap. If electrons flow across a barrier, then they have discrete arrival times.

Noise (electronics) - Wikipedia
Johnson–Nyquist noise (thermal noise, Johnson noise, or Nyquist noise) is the electronic noise generated by the thermal agitation of the charge carriers (usually the electrons) inside an electrical conductor at equilibrium, which happens regardless of any applied voltage.Thermal noise is present in all electrical circuits, and in sensitive electronic equipment such as radio receivers can ...

Johnson–Nyquist noise - Wikipedia
Electronics I - Devices and Noise Helmuth Spieler SLUO Lectures on Detector Techniques, December 4, 1998 LBNL 5 Consider a single noise pulse occurring in a short time interval dt at a time T prior to the measurement. The amplitude at t= T is an = W(T) If, on the average, nn dt noise pulses occur within dt, the fluctuation of their cumulative signal level at t= T is proportional to

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However, photon shot noise and vacuum fluctuations entering the detector can be modeled for simplicity as annihilation (photons)-creation (electrons) operators at the surface of the detector. Since the annihilation-creation operators are incompatible operators, fluctuations at the detector surface fall out naturally.

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Electronic noise and fluctuations in solids (eBook, 1996 ...
(2010). Electronic Noise and Fluctuations in Solids, by Sh. Kogan. Contemporary Physics: Vol. 51, No. 6, pp. 555-555.

Electronic Noise and Fluctuations in Solids, by Sh. Kogan ...
This comprehensive, well-illustrated book covers almost all important examples of the physics of electronic fluctuations (noise) in solids. Written for both physics and electronic engineering graduates, it is ideal for researchers in noise phenomena and highly sensitive electronic devices.

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New research, presented at the European College of Neuropsychopharmacology's Virtual Congress, has shown depression can be detected by monitoring fluctuations in a person's heart rate over a 24 ...