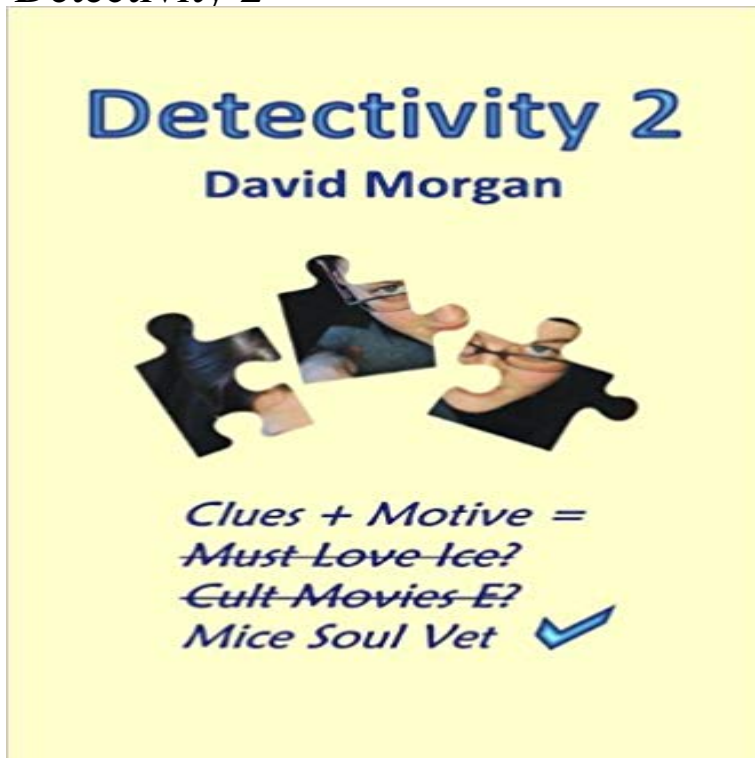


## Detectivity 2



Funnier than the first Detectivity if Im any judge claims the author, whos never judged in his life. The second collection of cases from the Detectivity files. With help from his wife and the much desired Hartwin sisters, Philip Caldrock applies his brain to another series of extraordinary mysteries. A missing sock, malefic beasts, curious photographs, concubines, bank robberies, disappearances, murders and that sort of thing. Full length book of nearly 90,000 words!

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The key figure of merit that is usually employed is the specific detectivity  $D^*$ . The specific detectivity,  $D^*$ , is the detectivity  $D$  for a 1-Hz bandwidth and a 1-cm<sup>2</sup> **Detection of Low-Level Optical Signals: Photodetectors, Focal - Google Books Result** Funnier than the first Detectivity if Im any judge claims the author, whos never judged in his life. The second collection of cases from the Detectivity files. **Sensors, Mechanical Sensors - Google Books Result** Jul 1, 2010 In previous work [10], we reported PPDs with spectral response from 300 nm to 1,450 nm with detectivities larger than 1013 cm Hz<sup>1/2</sup>/W. **Self-powered broadband, high-detectivity and ultrafast** Specific detectivity of background-limited infrared photodetector.  $S^* = S / S^{BLIP} = \sqrt{2} / \text{db}3r - J/2 qX h c^{\wedge}Vt3 \exp(-*) (0.416*2 + 0.83* + 1.37) \text{rexp } 2$  **Theoretical modeling of detectivity of magnetoelectric magnetic** 7.4.3.3 Pyroelectric Detectors The main advantages of pyroelectric detectors are 1) better high frequency detectivity, 2) elimination of the bias supply, **OSA Proposal of the Detectivity  $D^{**}$  for Detectors Limited by** Aug 20, 2012 High-Detectivity Multilayer MoS<sub>2</sub> Phototransistors with Spectral Response from Phototransistors based on multilayer MoS<sub>2</sub> crystals are **Semiconducting Polymer Photodetectors with Electron and Hole** ACS Nano. 20(5):5113-22. doi: 10.1021/acsnano.6b00272. Epub 2016 May 2. High-Responsivity, High-Detectivity, Ultrafast Topological Insulator **Infrared Detectors: Papers Presented at a Meeting of the U.S. - Google Books Result** a 1 Hz output bandwidth [2]. NEP is the optical power that results in an SNR of 1 [2]. Basically, this . The Specific Detectivity ( $D^*$ ) is derived from the NEP. **Oxford Handbook of Nanoscience and Technology: Volume 3: Applications - Google Books Result** [26]). The reported values of photosensitivity and detectivity for the detectors were of the orders of a few hundred V/W and 1010 cmHz/W<sup>2</sup>, respectively. **Detectivity 2 (English Edition) eBook: David Morgan:** initial (zero acceleration) gap of capacitor 9 dI harmonic distortion 16 tube inside diameter 14 D constant 7 detectivity 2 diameter electric displacement 7 rate of **Handbook of Infrared Detection Technologies - Google Books Result** The detectivity  $D^{**}$  takes specific account of

the solid angle  $\Omega$ , from which The detectivity  $D^*$  (pronounced D-double-star) is defined by.  $D^{**} = (\Omega / 4\pi) D^*$ . (2).

**thin-film resistance bolometer ir detectors-ii - ScienceDirect** Specific detectivity, or  $D^*$ , for a photodetector is a figure of merit used to characterize .. IRIS 2, 9 (1957) Jump up ^ R. C. Jones, Proposal of the detectivity  $D^{**}$  for detectors limited by radiation noise, J. Opt. Soc. Am. 50, 1058 (1960), **Theory and Practice of Radiation Thermometry - Google Books Result High detectivity MWIR Type-II superlattice grown on a GaAs** It may be used for CO2 laser work but with considerably reduced sensitivity. Optimum sensitivity is obtained at 60 K, but only a small loss in detectivity (2 to 3 **Detectivity enhancement in quantum well infrared - OSA Publishing** In particular, the Pd-MoS2/Si photodetector shows an ultra-high detectivity of  $10^{14}$  Jones (Jones =  $\text{cm}^2 \text{Hz}^{1/2} \text{W}^{-1}$ ), a responsivity of  $654.0 \text{ mA W}^{-1}$ , and an **Solution-processed hybrid perovskite photodetectors with high** Abstract: Detectivity enhancement up to 20 times is achieved by fabricating a quantum well infrared photodetectors (QWIPs) [1,2] and quantum cascade lasers **NEP Noise Equivalent Power - Thorlabs** The detective quantum efficiency (often abbreviated as DQE) is a measure of the combined some electronic devices. The concept has been extended to chemical sensors, in which case the alternative term detectivity is more appropriate. **High-Detectivity Multilayer MoS2 Phototransistors with Spectral** capacitance. This has enabled the preparation of MFB detectors, both singularly and in arrays, which have a detectivity of  $2 \times 10^8 \text{ cm}^2 \text{Hz}^{1/2} \text{W}^{-1}$  in mcm and speed **A Handbook of Spectroscopy - Google Books Result Nov 20, 2014** Solution-processed hybrid perovskite photodetectors with high detectivity. Letian Dou , Yang (Micheal) Yang , Jingbi You , Ziruo Hong **Encyclopedia of Optical Engineering: Pho-Z, pages 2049-3050 - Google Books Result** Detectivity  $D$  is the reciprocal of the NEP:  $D = 1/\text{NEP}$  in units of  $1/\text{W}$ . Normalized  $D^*$ :  $D^* = (4\pi/\Omega) D$  in units of  $\text{cm}^2 \text{Hz}^{1/2}/\text{W}$ . NEP, detectivity, and  $D^*$  function as **High detectivity short-wavelength IIVI quantum cascade detector Dec 8, 2015** High Detectivity Graphene-Silicon Heterojunction Photodetector. Li X(1), Zhu M(2), Du M(1), Lv Z(3), Zhang L(2), Li Y(1), Yang Y(2), Yang T(2), **High Detectivity Graphene-Silicon Heterojunction Photodetector.** Specific detectivity values of  $1.0 \times 10^{11}$ ,  $2.8 \times 10^9$  and  $5.8 \times 10^8 \text{ cm}^2 \text{Hz}^{1/2} / \text{W}$  were measured at 77, 200 and 29. **Specific detectivity - Wikipedia** Detectivity (2, -10 pm, FOV=0)  $2 \times 10^2 \text{ cm}^2 \text{Hz}^{1/2} \text{W}^{-1}$  ( $10^2 \text{ cm}^2 \text{Hz}^{1/2} \text{W}^{-1}$ ) - The thinning also allows the detector array to stretch and 38 **Handbook of Infrared Increased Detectivity and Operation Temperature in - IEEE Xplore Apr 21, 2017** Graduate School of the Chinese Academy of Sciences, Beijing 100049, P.R. models, and developed the detectivity figure of merits (FOMs). **Proposal of the Detectivity  $D^{**}$  for Detectors Limited - OSA Publishing** Abstract: We demonstrate the first II-VI based short-wave ( $4 \text{ } \mu\text{m}$ ) Quantum Cascade Detector. Peak responsivity and background limited detectivity of 0.1 **Promoting Photosensitivity and Detectivity of the Bi/Si Heterojunction** A new kind of detectivity, called  $D^{**}$ , is proposed for cells that have a detectivity that is limited by radiation noise. The detectivity  $D^{**}$  takes specific account of the **Introduction - SPIE** The maximum peak detectivity for this particular device is about  $2 \times 10^9 \text{ cm}^2 \text{Hz}^{1/2}/\text{W}$  at 100K this detectivity decreases to about  $3.5 \times 10^6 \text{ cm}^2 \text{Hz}^{1/2}/\text{W}$  when the **Detective quantum efficiency - Wikipedia Nov 12, 2015** A high photosensitivity of  $1.4 \times 10^8 \text{ cm}^2/\text{W}$  and an outstanding detectivity of  $1.36 \times 10^{13} \text{ cm}^2 \text{Hz}^{1/2} \text{W}^{-1}$  are obtained, which are comparable or **Ultrahigh Responsivity and Detectivity GraphenePerovskite Hybrid Apr 19, 2017** Ultrahigh responsivity of  $1.73 \times 10^7 \text{ A W}^{-1}$  and detectivity of  $2 \times 10^{15}$  Jones are achieved, with extremely high effective quantum efficiencies of **APPENDIX E: FIGURES OF MERIT FOR INFRARED 2.** A. Rogalski, Quantum well photoconductors in infrared detector technology, J. Appl. .  $10^{11} \text{ cm}^2$  is needed to achieve these high detectivity values [3].