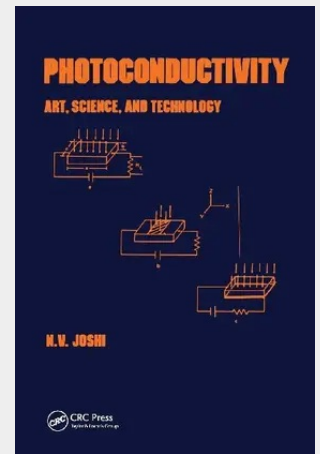


Photoconductivity

Art: Science & Technology

Featuring detector technology capable of sensing even a few photons, this valuable reference guide provides criteria for selecting techniques and equipment appropriate to various types of faint signals. It highlights many important facets of photoconductivity and photodetection, including the measurement of weak photosignals in the presence of noise, statistics relating to the creation, annihilation, and transport of charge carriers, and time-dependent behavior, photoquenching, negative photoconductivity, and photosensitivity. Complete with more than 125 diagrams and tables, *Photoconductivity: Art, Science, and Technology* gives special attention to modern two-dimensional photodetectors, describes various configurations for experimental techniques in photoconductivity measurements, surveys band structure properties, with useful reference to such contemporary structures as n-i-p-i and modulation doped materials, illustrates the concept of noise in photoconductors and its role in detector technology, and observes unusual photoconducting properties in diluted magnetic semiconductors. *Photoconductivity: Art, Science, and Technology* serves as an indispensable resource for optical, electrical, laser, and aerospace engineers, physicists, materials scientists, photonic scientists, and graduate students interested in these disciplines.

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