Joshi

Photoconductivity

Art: Science & Technology

Featuring detector technology capable of sensing even a few photons, this valuablereference guide provides criteria for selecting techniques and equipment appropriate tovarious types of faint signals. It highlights many important facets of photoconductivityand photodetection, including the measurement of weak photosignals in the presence ofnoise. statistics relating to the creation, annihilation, and transport of charge carriers. and time-dependent behavior, photoquenching, negative photoconductivity, andphotosensitivity.Complete with more than 125 diagrams and tables, Photoconductivity: Art,Science, and Technology gives special attention to modem two-dimensionalphotodetectors. describes various configurations for experimental techniques inphotoconductivity measurements. surveys band structure properties, with usefulreference 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 indispensableresource for optical, electrical, laser, and aerospace engineers, physicists, materialsscientists, photonic scientists, and graduate students interested in these disciplines.

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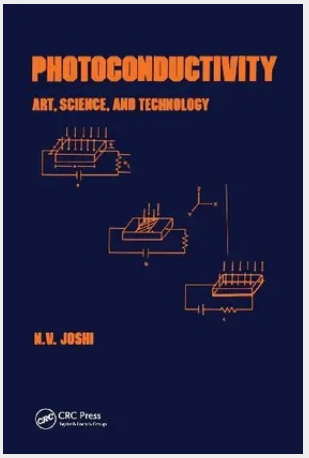

96,30 €
96,30 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9780367450816
Medium: Buch
ISBN: 978-0-367-45081-6
Verlag: Routledge
Erscheinungstermin: 02.12.2019
Sprache(n): Englisch
Auflage: 1. Auflage 2019
Serie: Optical Science and Engineering
Produktform: Kartoniert
Gewicht: 477 g
Seiten: 304
Format (B x H): 152 x 229 mm

Kundenservice Verlag Dr. Otto Schmidt KG
Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)