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Physics and Technology of Semiconductor Thin Film-Based Active Elements and Devices

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About the ebook

The book features original results in studies and practical applications of A₂B₆-A₄B₆ and chalcogenide semiconductor compounds for sensory and micro(nano)electronics. Relevant experimental data as well as results of numerical simulations are also included.

Contents

- ▶ Semiconductor Structures: Basic Models and Experimental Results
- ▶ Heterostructure Growth
- ▶ Investigation of Electrical Properties of Active Elements Based on Silicon and A₂B₆-A₄B₆ Group Materials
- ▶ Engineering of Semiconductor-Based Active Elements by Mechanical Deformation and Ion Implantation Technology
- ▶ New Narrow-gap Semiconductor ZnCdHgTe: Growth Technology and Principal Features of ZnCdHgTe-Based Structures
- ▶ Electric Field-Induced Characteristics of ZnCdHgTe Films Surface
- ▶ Chalcogenide Semiconductors for Sensor Applications

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