

DOM2015

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Abstract Book

International Symposium
and Young Scientist School on
Disordered and Ordered Materials
Analysis and Characterization

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conducted for results which follow from the proposed model, other known theoretical models, and experimental data reported in literature. The proposed model is also applied to calculations of the critical thickness of the film for such heteroepitaxial deposits of technological interest as GaN-on-sapphire, InN-on-GaN, GaN-on-InN, GaN-on-AlN, and AlN-on-GaN. The developed theoretical approach may be also adopted particularly for analysis of the strain relaxation in AlN/Si (111) and AlN/SiC(0001) heterostructures that are of a high technological interest in recent years.

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The status of research in the department of Physics of Semiconductors and Microelectronics

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AFTER SHORT GENERAL INFORMATION RESULTS OF THE FOLLOWING INVESTIGATIONS ARE REPORTED:

1. METAL OXIDE PHOTOELECTRODES FOR HYDROGEN PHOTOELECTROCHEMICAL GENERATION
2. ANTIREFLECTION COATINGS OF SILICON SOLAR CELLS
3. SMOKE SENSORS
4. METAL OXIDE GAS SENSORS, E-NOSE
5. QUANTUM DEVICES AND MATERIALS
6. SEMICONDUCTOR-LIQUID CRYSTAL INTERFACE. NEW GENERATION OF OPTICAL ELEMENTS