

## **SEMICONDUCTOR HETEROSTRUCTURES: STATE-OF-ART AND FUTURE TRENDS**

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The early history of the semiconductor heterostructures and their applications in different electronic devices is described. The lecture also contains a short historical review of the physics, technology of preparation and applications of quantum wells and superlattices. Recent progress in quantum wires and especially quantum dots structures and future trends and perspectives of these new types of heterostructures are discussed.

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