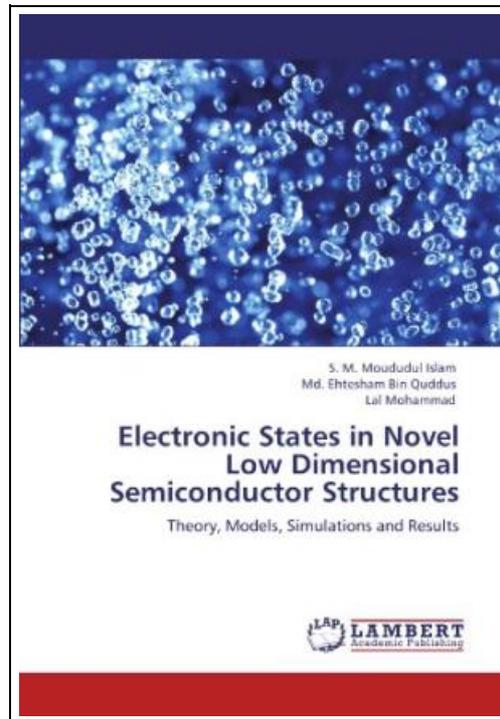


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ELECTRONIC STATES IN NOVEL LOW DIMENSIONAL SEMICONDUCTOR STRUCTURES



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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Theory, Models, Simulations and Results | The book is concerned with the study of the energy states, wavefunctions and probability of existence of an electron in multidimensional heterostructures with specific boundary conditions through different solution techniques. To do so, the theory with brief explanation of the Schrödinger's equation in multi-dimensions is presented. Next different techniques used for solution of 1D boundary value problems are discussed. A comparison is drawn among the methods and then the best one is chosen for the remaining part. Fair amount of concern is applied to this Semi-Analytical solution technique which ensures easy determination of state energy values. Simple and regular multi-dimensional structures are analyzed then. Later, more complex and irregular structures are emphasized to establish the generality of the solution technique. Size dependence of quantized energy levels in Quantum Dash structures is given special mention for its usefulness in the Laser technology. Comparison of the results with an established finite element method is presented as well. People looking to analyze Eigen states for nano-structures should find this book useful. | Format: Paperback | Language/Sprache: english | 96 pp.

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