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Computational Electronics book. Semiclassical and Quantum Device Modeling and Simulation. By Dragica Vasileska, Stephen M. Goodnick, Gerhard Klimeck. Edition 1st Edition . First Published 2010 . eBook Published 19 December 2017 . Pub. location Boca Raton . Imprint CRC Press .

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Computational Electronics - БГУИР

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ACUTE begins with a discussion of the energy band structure that enters as an input to any device simulator. The next section offers a discussion of simulators that involve the drift-diffusion model, and then simulations that involve hydrodynamic and energy-balance transport, and conclude the semi-classical transport modeling with application of particle-based device simulation methods.

ACUTE - Assembly for Computational Electronics

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Computational Electronics - Dragica Vasileska, Stephen ...

The book takes the semi-classical approach where light is treated as a wave in accordance with the classical Maxwell equations, while matter is governed by quantum theory. It begins by introducing the postulates and mathematical framework of quantum theory, followed by the formalism of the density matrix which allows the transition from microscopic (quantum) quantities to macroscopic ...

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