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Scattering approach in calculating Rashba Spin-orbit coupling in asymmetric CHIH-PIAO CHUU, QIAN NIU — The Rashba Spin-orbit coupling plays a crucial role in spin manipulation in semiconductor heterostructures. We study the underlying physics through scattering approach with the Kane model. Several physical parameters are considered, including potential barrier asymmetries, quantum well inclination, as well as band structure parameters. This may provide a better understanding in designing spintronic devices.

Chih-Piao Chuu
APS

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