



# **Superlattice to Nanoelectronics, Second Edition** (Elsevier Insights)

Raphael Tsu

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Superlattice to Nanoelectronics, Second Edition, traces the history of the development of superlattices and quantum wells from their origins in 1969. Topics discussed include the birth of the superlattice; resonant tunneling via man-made quantum well states; optical properties and Raman scattering in man-made quantum systems; dielectric function and doping of a superlattice; and quantum step and activation energy. The book also covers semiconductor atomic superlattice; Si quantum dots fabricated from annealing amorphous silicon; capacitance, dielectric constant, and doping quantum dots; porous silicon; and quantum impedance of electrons.

- Written by one of the founders of this field
- Delivers over 20% new material, including new research and new technological applications
- Provides a basic understanding of the physics involved from first principles, while adding new depth, using basic mathematics and an explanation of the background essentials



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