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Scientific American

1338 The American Association for the Advancement of Science was founded in 1848 and incorporated in 1874. Its objectives are to further the work of scientists, to facilitate cooperation among them, to foster scientific freedom and responsibility, to improve the effectiveness of science in the promotion of human welfare, to advance education in science, and to increase public understanding and appreciation of the importance and promise of the methods of science in human progress.
COVER  Cross section of a serpentine superlattice (100 angstrom period) and its three lowest energy electron wave functions as an example of fabrication on a small scale (see page 1326). The cross-sectional view (far right) shows the aluminum-rich regions (dark) that confines electrons to the gallium-rich regions (light) in the segregated aluminum-gallium-arsenic alloy. The most colorful portions of the wave functions (in sections to the left) are regions of maximum electron density; the reddish-brown areas indicate zero density. See the editorial on page 1277 and the special section beginning on page 1300. [Simulations by J. C. Yi of the University of California, Santa Barbara]

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