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(Ms. Hannah Lowe)

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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. Excerpt: .been developed to treat problems in several of these areas. Atomic-Scale Modification of Electronic Materials PM Campbell 64.15.25.32 The demonstrated ability of scanning proximal probes to image and manipulate single atoms on a surface has created a unique opportunity to modify the properties of electronic materials with unprecedented degree of control. The goal of this research is to use proximal probes such as scanning tunneling microscopy (STM) and atomic force microscopy (AFM) to manipulate and engineer semiconductor structures at the nanometer and atomic scales. Special emphasis will be placed on fabricating low-dimensional structures in the size regime in which the effect of single electronic charges will dominate. The electronic and optical properties of such structures are expected to manifest a wide range of new effects, which will be interesting to basic physics and which may be useful for creating new classes of electronic devices. Available resources include ambient STM and AFM systems; a low-temperature STM; four molecular beam epitaxy systems growing (AlGaIn)As, (AlGaIn)Sb, and SiGe heterostructures; a nanofabrication processing facility; and a wide range of cryogenic, high-magnetic field, far-infrared, and spectroscopic facilities to probe the transport and optical properties of dimensionally confined semiconductor structures. Proximal Probe-Based Fabrication of Semiconductor Nanostructures ES Snow 64.15.25.33 We are using scanning probes such as the scanning tunneling microscope (STM) and the atomic force microscope (AFM) to fabricate novel nanometer-scale semiconductor device structures. Our goal is to enhance the atomic-scale precision of semiconductor device fabrication and to study the electrical and optical...



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