



Surfaces and Interfaces: Physics and Electronics: 2nd ("Surface Science")

R. S. Bauer

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Surfaces and Interfaces: Physics and Electronics covers the proceedings of the second Trieste ICTP-IUPAP Semiconductor Symposium, conducted at the International Center for Theoretical Physics in Trieste, Italy on August 30 to September 3, 1982. The book focuses on the processes, methodologies, reactions, and approaches involved in semiconductor physics.

The selection first elaborates on the electronic properties and surface geometry of GaAs and ZnO surfaces; electronic structure of Si (III) surfaces; and photoemission studies of surface states on Si (III) 2X1. Discussions focus on consistency of different experiments, relating experiments to a theoretical model, quenching of surface states by hydrogen, inverse photoemission results, and basic data and models of the low-index ZnO surfaces. The text then examines Si (III) 2X1 studies by angle resolved photoemission; electronic surface states at steps in Si (III) 2X1; and a novel method for the study of optical properties of surfaces.

The manuscript takes a look at spot profile analysis (LEED) of defects at silicon surfaces; chemisorption-induced defects at interfaces on compound semiconductors; and surface defects on semiconductors. The microscopic properties and behavior of silicide interfaces, recombination at semiconductor surfaces and interfaces, and dipoles, defects, and interfaces are also discussed.

The selection is a highly recommended source of data for physicists and readers wanting to study semiconductor physics.

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