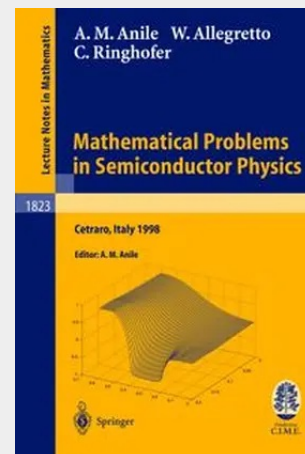


Mathematical Problems in Semiconductor Physics

Lectures given at the C.I.M.E. Summer School held in Cetraro, Italy, June 15-22, 1998

The C.I.M.E. session on **Mathematical Problems in Semiconductor Physics**, was addressed to researchers with a strong interest in the mathematical aspects of the theory of carrier transport in semiconductor devices. The subjects covered include hydrodynamical models for semiconductors based on the maximum entropy principle of extended thermodynamics, mathematical theory of drift-diffusion equations with applications, and the methods of asymptotic analysis.

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