



Laser Cooling of Solids (Woodhead Publishing Series in Electronic and Optical Materials)

S V Petrushkin, V V Samartsev

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Laser cooling is an important emerging technology in such areas as the cooling of semiconductors. The book examines and suggests solutions for a range of problems in the development of miniature solid-state laser refrigerators, self-cooling solid-state lasers and optical echo-processors. It begins by looking at the basic theory of laser cooling before considering such topics as self-cooling of active elements of solid-state lasers, laser cooling of solid-state information media of optical echo-processors, and problems of cooling solid-state quantum processors.

Laser Cooling of Solids is an important contribution to the development of compact laser-powered cryogenic refrigerators, both for the academic community and those in the microelectronics and other industries.

- Provides a timely review of this promising field of research and discusses the fundamentals and theory of laser cooling
- Particular attention is given to the physics of cooling processes and the mathematical description of these processes
- Reviews previous experimental investigations in laser cooling and presents progress towards key potential applications

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