

**Laser Cooling Of Solids By Sergei V Petrushkin; Vitalii
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Laser Cooling of Solids A volume in Woodhead Publishing Series in Electronic and Optical Materials. Author(s): S.V. Petrushkin and V.V. Samartsev

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Laser cooling of solids, sometimes also known as optical refrigeration, is a fast developing area of optical science, investigating the interaction of light with

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Experimental techniques for laser cooling have relied but they take on special significance in the context of laser cooling of solids where they can guide

Spie | proceeding | anti-stokes regime of laser

Sergei N. Andrianov and Vitaly V. Samartsev "Anti-Stokes regime of laser cooling of solids", Proc. SPIE 4061, IRQO '99: Quantum Optics, 296 (January 14, 2000); doi:10

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Laser Cooling of Solids. Edited by Epstein, Richard I.; Sheik-Bahae, Mansoor. Proceedings of the SPIE, Volume 6461, pp. (2007). (SPIE Homepage)

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ii This thesis focuses on an experimental investigation of refrigeration of solids induced by incident laser radiation. LASER COOLING OF SOLIDS By (2002) Cached.

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Entropy and ef ciency in laser cooling of solids X. L. Ruan,^{1,*} S. C. Rand,² and M. Kaviany¹, needed for laser cooling of solids using very general arguments.

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Laser Cooling of Solids. Summary; Basic Physical Principles; Historical Overview; Experimental Measurements; Cryocooler Applications; Laser Applications; References

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Laser cooling of solids School, Centre or Institute School of Physical Sciences: Institution The University of Queensland Publication date

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Proc. SPIE 6461, Laser Cooling of Solids, 64610I (March 07, 2007); doi: 10.1117/12.708536. Topics: Luminescence,

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Doppler cooling was simultaneously proposed by two groups in 1975, the first being David J. Wineland and Hans Georg Dehmelt Laser Cooling and Trapping.

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the concept of anti-Stokes photoluminescence cooling of matter has only recently become practical, as a consequence of the laser pump Laser cooling of solids.

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Cavity Enhanced Laser Cooling of Solids 647 5. Conclusions and outlook In this chapter, we have reviewed various enhancement means of the pump beam to

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