

Laser Cooling and Trapping (Graduate Texts in Contemporary Physics)

By Harold J. Metcalf, Peter van der Straten, Peter van der Straten

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Intended for advanced undergraduates and beginning graduates with some basic knowledge of optics and quantum mechanics, this text begins with a review of the relevant results of quantum mechanics, before turning to the electromagnetic interactions involved in slowing and trapping atoms and ions, in both magnetic and optical traps. The concluding chapters discuss a broad range of applications, from atomic clocks and studies of collision processes, to diffraction and interference of atomic beams at optical lattices and Bose-Einstein condensation.

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About the Author
Peter van der Straten is Professor of Nanophotonics at Utrecht University where his research interests focus on Bose Einstein condensation and quantum hydrodynamics. He is head of the Teaching Advisory Committee of the Physics Department and a member of the Dutch Physical Society.

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