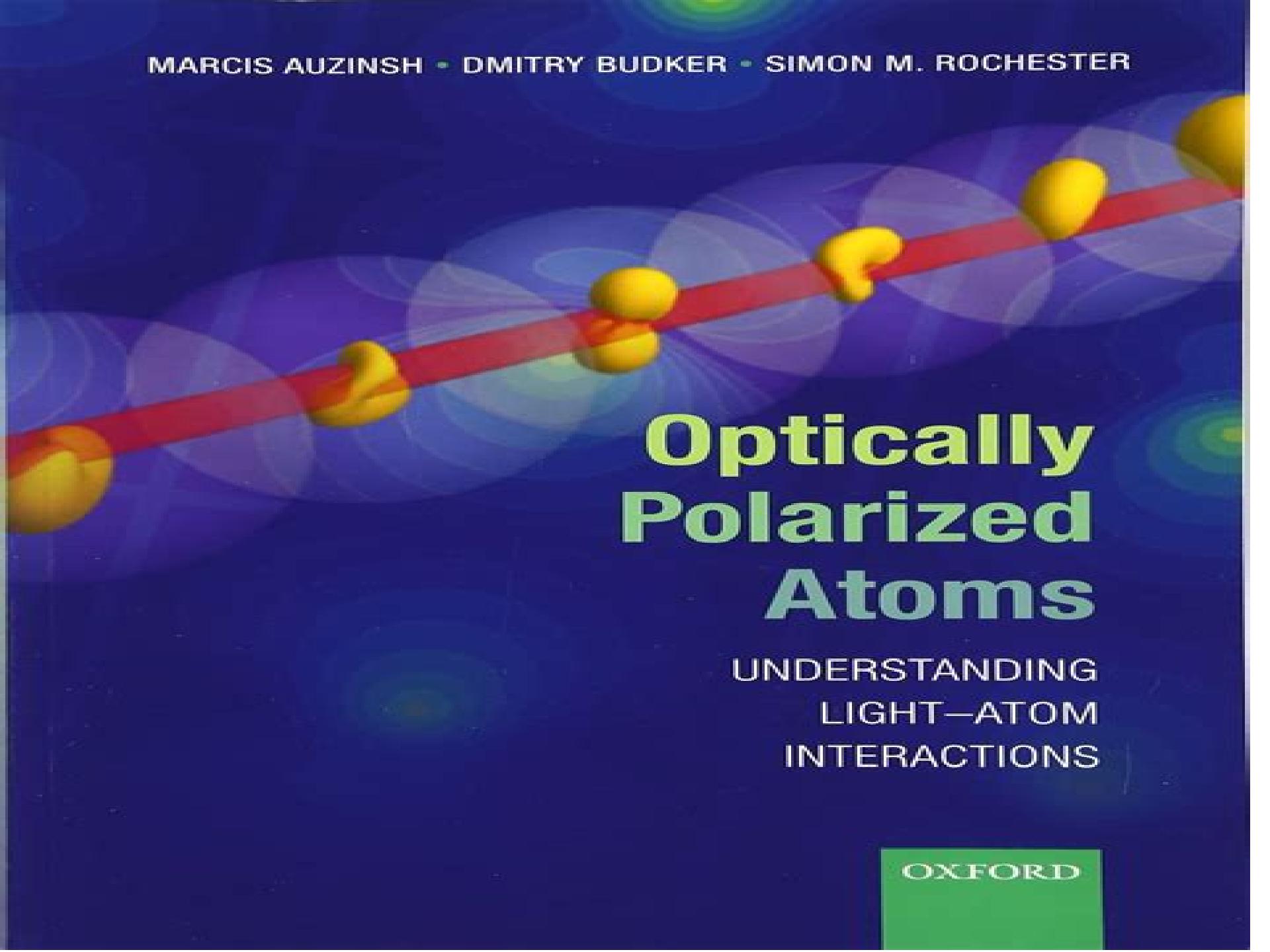


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# Optically Polarized Atoms

UNDERSTANDING  
LIGHT-ATOM  
INTERACTIONS

OXFORD

# Optically Polarized Atoms Understanding Light Atom Interactions

**Sabine Zange**

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***Manipulating Quantum Structures Using Laser Pulses*** Bruce W. Shore,2011-09-29 The use of laser pulses to alter the internal quantum structure of individual atoms and molecules has applications in quantum information processing the coherent control of chemical reactions and in quantum state engineering This book presents the underlying theory of such quantum state manipulation for researchers and graduate students The book provides the equations and approaches for their solution which can be applied to complicated multilevel quantum systems It also gives the background theory for application to isolated atoms or trapped ions simple molecules and atoms embedded in solids Particular attention is given to the ways in which quantum changes can be displayed graphically to help readers understand how quantum changes can be controlled

**Optical Magnetometry** Dmitry Budker,Derek F. Jackson Kimball,2013-03-07 Comprehensive coverage of the principles technology and diverse applications of optical magnetometry for graduate students and researchers in atomic physics

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**The Physics of Electronic and Atomic Collisions** L.J. Dube,B.A. Mitchell,W. McConkey,C.E. Brion,2000-04-14 Annotation Contains the written versions of the invited talks presented at ICPEAC 19 3 plenary lectures 9 review talks 47 progress reports and 14 selected topics The papers address photon electron ionization electron atom electron molecule theory experiment electron ion positron and muon ion atom theory experiment charge transfer ion molecule Rydberg ultracold and ion ion collisions photoionization collisions with

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