



Polarization And Correlation Phenomena In Atomic Collisions

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Summary : Free polarization and correlation phenomena in atomic collisions pdf download - polarization and correlation phenomena in atomic collisions a practical theory course bridges the gap between traditional courses in quantum mechanics and practical investigations the authors goal is to guide students in training their ability to perform theoretical calculations of polarization and correlation characteristics of various processes in atomic collisions the book provides a concise description of the density matrix and statistical tensor formalism and presents a general approach to the description of angular correlation and polarization phenomena it illustrates an application of the angular momentum technique to a broad variety of atomic processes the book contains derivations of the most important expressions for observable quantities in electron-atom and ion-atom scattering including that for polarized beams and or polarized targets in photo-induced processes autoionization and cascades of atomic transitions spin-polarization and angular distributions of the reaction products are described including the angular correlations in different types of coincidence measurements the considered processes exemplify the general approach and the number of examples can be easily extended by a reader the book supplies researchers both theoreticians and experimentalists with a collection of helpful formulae and tables and can serve as a reference book based on a highly regarded course at moscow state university and elsewhere the book provides real guidance on theoretical calculations of practical use

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