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Autore	Goidanich, Athos
Titolo	Sulla fonte di alimentazione e sulla microflora aerobica del nido pedotrofico e dell'apparato digerente delle larve di Scarabei coprofagi (Coleoptera Scarabaeidae) / Athos Goidanich, Carlo E. Malan
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Altri autori (Persone)	Malan, Carlo Enrico
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2. Record Nr.	UNINA9910438123503321
Autore	Kleinpoppen Hans
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Soggetti	Atoms Physics Mathematical physics Physical measurements Measurement Engineering Atomic, Molecular, Optical and Plasma Physics Theoretical, Mathematical and Computational Physics Measurement Science and Instrumentation Engineering, general
Lingua di pubblicazione	Inglese
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Analysis of Atomic Collisions -- Angle and Spin Resolved Analysis of Resonantly Excited Auger Decay -- Complete Experiments for Half-Collision, Auger Decay -- Analysis of Molecular Collisions -- Conclusions.
Sommario/riassunto	The main goal of this book is to elucidate what kind of experiment must be performed in order to determine the full set of independent parameters which can be extracted and calculated from theory, where electrons, photons, atoms, ions, molecules, or molecular ions may serve as the interacting constituents of matter. The feasibility of such perfect' and-or `complete' experiments, providing the complete quantum mechanical knowledge of the process, is associated with the

enormous potential of modern research techniques, both, in experiment and theory. It is even difficult to overestimate the role of theory in setting of the complete experiment, starting with the fact that an experiment can be complete only within a certain theoretical framework, and ending with the direct prescription of what, and in what conditions should be measured to make the experiment 'complete'. The language of the related theory is the language of quantum mechanical amplitudes and their relative phases. This book captures the spirit of research in the direction of the complete experiment in atomic and molecular physics, considering some of the basic quantum processes: scattering, Auger decay and photo-ionization. It includes a description of the experimental methods used to realize, step by step, the complete experiment up to the level of the amplitudes and phases. The corresponding arsenal includes, beyond determining the total cross section, the observation of angle and spin resolved quantities, photon polarization and correlation parameters, measurements applying coincidence techniques, preparing initially polarized targets, and even more sophisticated methods. The 'complete' experiment is, until today, hardly to perform. Therefore, much attention is paid to the results of state-of-the-art experiments providing detailed information on the process, and their comparison to the related theoretical approaches, just to mention relativistic multi-configurational Dirac-Fock, convergent close-coupling, Breit-Pauli R-matrix, or relativistic distorted wave approaches, as well as Green's operator methods. This book has been written in honor of Herbert Walther and his major contribution to the field but even to stimulate advanced Bachelor and Master students by demonstrating that obviously nowadays atomic and molecular scattering physics yields and gives a much exciting appreciation for further advancing the field.
