

PHYSICS 421: PHYSICS OF LASERS

Resonance Ionisation Spectroscopy



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Principles And Applications Of Resonance Ionisation Spectroscopy

Mitsuhiro Miyajima



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Principles and Applications of Resonance Ionisation Spectroscopy, George Samuel Hurst, Marvin Gay Payne, 1988

This book provides a comprehensive treatment of the underlying principles and the practical applications and techniques of resonance ionisation spectroscopy RIS. The field of RIS was originated and developed by a group at the Oak Ridge National Laboratory in the USA, a group that was led by the authors. Thus the book includes a description of the original work on the technique from those directly involved. The main unifying theme is the conception, perfection and application of a laser technique for the selective and sensitive detection of individual atoms. The physical phenomena involved in RIS are discussed together with the technique's capabilities as an analytical tool with single atom sensitivity. Detailed information on the photophysics involved in selective and sensitive ionisation of nearly all elements in the Periodic Table is given. The book includes an in depth description of laser schemes required for practical utilisation of RIS with emphasis on both broad band width and narrow band width pulsed lasers. The application of RIS to the detection of noble gases such as ^{81}Kr for ice cap dating and solar neutrino detection is discussed. Applications to the analysis of solids include uses in such fields as impurity detection in semiconductors, medical research, exploration and particle physics. The book will appeal to postgraduate and professional level research scientists such as physicists, chemists and earth scientists.

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Atomic, Molecular, and Optical Physics: Atoms and Molecules, 1996-05-16 Combined with the other two volumes this text is a comprehensive treatment of the key experimental methods of atomic molecular and optical physics as well as an excellent experimental handbook for the field The wide availability of tunable lasers in the past several years has revolutionized the field and led to the introduction of many new experimental methods that are covered in these volumes Traditional methods are also included to ensure that the volumes will be a complete reference source for the field

Atoms, Molecules and Photons Wolfgang Demtröder, 2010-11-10 This introduction to Atomic and Molecular Physics explains how our present model of atoms and molecules has been developed during the last two centuries by many experimental discoveries and from the theoretical side by the introduction of quantum physics to the adequate description of micro particles It illustrates the wave model of particles by many examples and shows the limits of classical description The interaction of electromagnetic radiation with atoms and molecules and its potential for spectroscopy is outlined in more detail and in particular lasers as modern spectroscopic tools are discussed more thoroughly Many examples and problems with solutions should induce the reader to an intense active cooperation

Resonance Ionization Spectroscopy 1994 Seventh International Symposium J.-Jürgen Kluge, Klaus Wendt, James E. Parks, 2000-04-14 RIS 94 was devoted to presenting new results discovering new developments in techniques and instrumentation and acquiring new knowledge in related fields with potential applications for RIS and its unique capabilities Topics for the program as reported in these proceedings include ultrasensitive

Laser-enhanced Ionization Spectrometry John C. Travis, Gregory Chester

Turk,1996 The contributors to this collaborative effort from Russia Australia Europe and the United States clarify terminology explain the inner workings of LEI and offer derivations for both idealized forms and realistic approximations They also analyze the capabilities and limitations of this technique as an analytical method including instrumentation sources of noise limits of detection interferences and applications **Applied Laser Spectroscopy** David L. Andrews,1992

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ToF-SIMS John C. Vickerman,David Briggs,2001 Time of flight secondary ion mass spectroemtry is the most versatile of surface analysis techniques that has been developed Following an overview this work includes sections devoted to instrumentation and sample handling fundamentals and molecular dynamics simulations optimisation methods and data interpretation and analytical applications **Laser Physics** ,2008

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