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# High Sensitivity Counting Techniques

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## **High Sensitivity Counting Techniques:**

**High Sensitivity Counting Techniques** D. E. Watt, D. Ramsden, 2014-05-16 International Series of Monographs on Electronics and Instrumentation Volume 20 High Sensitivity Counting Techniques details the low background counting techniques for radiation detection The book covers various areas of concerns in utilizing low background counting technique The text first details the counting parameters and then proceeds to discussing the attainment of low backgrounds in radiation detectors Next the selection deals with low background laboratories The remaining chapters cover various quantification methods such as carbon 14 beta counting counting of soft radiations using internal sources and measurement of gamma radioactivity from the body The book will be of great interest to scientists engineers and technicians involved in atomic energy projects *High sensitivity counting techniques* David Edwin Watt, 1964

**Low-level Measurements Of Radioactivity In The Environment : Techniques And Applications - Proceedings Of The Third International Summer School** M Garcia-leon, R Garcia-tenorio, 1994-07-27 This book contains the lectures seminars and abstracts of short communications delivered at the above summer school The talks are an updated account of the methods used in the detection of radioactivity in nature and in the study of its spread in the environment *Physics Division Annual Report* Argonne National Laboratory. Physics Division, 2001 **Nuclear Science Abstracts**, 1973 [Catalog of Copyright Entries. Third Series](#) Library of Congress. Copyright Office, 1967 Includes Part 1 Number 1 Books and Pamphlets Including Serials and Contributions to Periodicals January June

**Atomic, Molecular, and Optical Physics: Charged Particles**, 1995-11-29 With this volume Methods of Experimental Physics becomes Experimental Methods in the Physical Sciences a name change which reflects the evolution of today's science This volume is the first of three which will provide a comprehensive treatment of the key experimental methods of atomic molecular and optical physics the three volumes as a set will form 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

**State-of-the-Art Laser Spectroscopy and its Applications : Volume II** Yufei Ma, Qun Hao, Karol Krzempek, 2023-02-09 **Ruminant Parasitology, An Issue of Veterinary Clinics of North America: Food Animal Practice** Ray M. Kaplan, 2020-02-07 This issue of Veterinary Clinics Food Animal Practice guest edited by Dr Ray M Kaplan focuses on Ruminant Parasitology This is one of three issues each year selected by the series consulting editor Dr Robert A Smith Articles in this issue include but are not limited to biology and epidemiology of GI nematode parasites in cattle epidemiology and control of GI parasites of cattle in southern climates epidemiology and control of GI parasites of cattle in northern climates anthelmintic resistance and strategies for sustainable control of parasites refugia based strategies for parasite control in livestock epidemiology and control of liver flukes diagnostic methods in livestock parasitology parasite

vaccines what Modeling parasites transmission and resistance can teach us fecal egg count reduction tests in cattle and small ruminants ectoparasites of ruminants ruminant coccidiosis neosporosis toxoplasmosis and sarcocystosis in ruminants giardiasis and cryptosporidiosis in ruminants biology epidemiology and control of GI nematodes in small ruminants and realistic approaches to parasite control in ruminant livestock Methods of Biochemical Analysis David Glick, 2009-09-25

Biochemical analysis is a rapidly expanding field and is a key component of modern drug discovery and research Methods of Biochemical Analysis provides a periodic and authoritative review of the latest achievements in biochemical analysis Founded in 1954 by Professor David Glick Methods of Biochemical Analysis provides a timely review of the latest developments in the field *Advanced Time-Correlated Single Photon Counting Techniques* Wolfgang Becker, 2005-12-19

In 1984 Desmond O Connor and David Phillips published their comprehensive book *Time correlated Single Photon Counting* At that time time correlated single photon counting or TCSPC was used primarily to record fluorescence decay functions of dye solutions in cuvettes From the beginning TCSPC was an amazingly sensitive and accurate technique with excellent time resolution However acquisition times were relatively slow due to the low repetition rate of the light sources and the limited speed of the electronics of the 70s and early 80s Moreover TCSPC was intrinsically one dimensional i.e. limited to the recording of the waveform of a periodic light signal Even with these limitations it was a wonderful technique More than 20 years have elapsed and electronics and laser techniques have made impressive progress The number of transistors on a single chip has approximately doubled every 18 months resulting in a more than 1 000 fold increase in complexity and speed The repetition rate and power of pulsed light sources have increased by about the same factor **Semiconductors Probed by Ultrafast**

**Laser Spectroscopy Pt II** Robert R. Alfano, 2012-12-02 *Semiconductors Probed by Ultrafast Laser Spectroscopy Volume II* discusses the use of ultrafast laser spectroscopy in studying fast physics in semiconductors It reviews progress on the experimental and theoretical understanding of ultrafast events that occur on a picosecond and nanosecond time scale This volume discusses electronic relaxation in amorphous semiconductors and the physical mechanisms during and after the interaction of an intense laser pulse with a semiconductor It also covers the relaxation of carriers in semiconductors transient optical pulse propagation and methods of time resolved spectroscopy Scientists engineers and graduate students will find this book invaluable **The Chemistry of the Actinide and Transactinide Elements (3rd ed., Volumes 1-5)**

L.R. Morss, Norman M. Edelstein, Jean Fuger, 2007-12-31 *The Chemistry of the Actinide and Transactinide Elements* is a contemporary and definitive compilation of chemical properties of all of the actinide elements especially of the technologically important elements uranium and plutonium as well as the transactinide elements In addition to the comprehensive treatment of the chemical properties of each element ion and compound from atomic number 89 actinium through to 109 meitnerium this multi volume work has specialized and definitive chapters on electronic theory optical and laser fluorescence spectroscopy X ray absorption spectroscopy organoactinide chemistry thermodynamics magnetic

properties the metals coordination chemistry separations and trace analysis Several chapters deal with environmental science safe handling and biological interactions of the actinide elements The Editors invited teams of authors who are active practitioners and recognized experts in their specialty to write each chapter and have endeavoured to provide a balanced and insightful treatment of these fascinating elements at the frontier of the periodic table Because the field has expanded with new spectroscopic techniques and environmental focus the work encompasses five volumes each of which groups chapters on related topics All chapters represent the current state of research in the chemistry of these elements and related fields

The Chemistry of the Actinide and Transactinide Elements (Set Vol.1-6) L.R. Morss, Norman M. Edelstein, Jean Fuger, 2010-10-21 The fourth edition of The Chemistry of the Actinide and Transactinide Elements comprises all chapters in volumes 1 through 5 of the third edition published in 2006 plus a new volume 6 To remain consistent with the plan of the first edition to provide a comprehensive and uniform treatment of the chemistry of the actinide and transactinide elements for both the nuclear technologist and the inorganic and physical chemist and to be consistent with the maturity of the field the fourth edition is organized in three parts The first group of chapters follows the format of the first and second editions with chapters on individual elements or groups of elements that describe and interpret their chemical properties A chapter on the chemical properties of the transactinide elements follows The second group chapters 15 26 summarizes and correlates physical and chemical properties that are in general unique to the actinide elements because most of these elements contain partially filled shells of 5f electrons whether present as isolated atoms or ions as metals as compounds or as ions in solution The third group chapters 27 39 focuses on specialized topics that encompass contemporary fields related to actinides in the environment in the human body and in storage or wastes Two appendices at the end of volume 5 tabulate important nuclear properties of all actinide and transactinide isotopes Volume 6 Chapters 32 through 39 consists of new chapters that focus on actinide species in the environment actinide waste forms nuclear fuels analytical chemistry of plutonium actinide chalcogenide and hydrothermal synthesis of actinide compounds The subject and author indices and list of contributors encompass all six volumes     **National Bureau of Standards Handbook** ,1964     *Handbook Series* United States. National Bureau of Standards,1963     **Radioactivity** International Commission on Radiological Units and Measurements,1963     **Instrumentation in Applied Nuclear Chemistry** Jan Krugers,2012-12-06 This book attempts to build a bridge between two sciences chemistry and electronics The inside of the black boxes the nuclear chemist uses daily is explained in simple electronic terms Knowledge of the inside not only satisfies curiosity but helps one get the most out of the available equipment Likewise this book tries to give sufficient understanding for not over buying that is to say for buying the equipment which just serves the purpose instead of buying the best so at least it will serve the purpose The first three chapters give a concise understanding of what the area of applied nuclear chemistry is concerned with and what kind of equipment is generally used Chapter 1 gives a theoretical background while Chapter 3 deals with the practical

implementations Thus these chapters provide the background to determine what one can expect from the experiments The remainder of the book is devoted to the practical instrumentation of the experiments Each chapter deals with specific types of instruments and devices discusses briefly the electronics involved considers the limitations and investigates how and to what extent they can be circumvented The advantage of having different contributors each with his own practical experience shows clearly in this latter aspect Detailed practical knowledge and experience can be explained best by the person who has long been concerned with the subject theoretically and practically

**Analytical and Chromatographic Techniques in Radiopharmaceutical Chemistry** Donald M. Wieland, Michael C. Tobes, Thomas J. Mangner, 2012-12-06 In 1906 Michael T. Sweet first developed the chromatographic method by using an adsorbant to separate pigments Since that time the technological advances in TLC and HPLC have brought about new definitions of purity in parallel with the advances Radiopharmaceutical chemistry is especially dependent on the chromatographic technique because of the relatively small amount of material in most radiopharmaceuticals often so small that the usual physical methods of analytical chemistry cannot be used As a result this collection of papers represents the key to successful radiopharmaceutical development by setting the standard for the present of radiochemical purity and its definition William C. Eckelman Ph.D. Diagnostics Associate Director The Squibb Institute for Medical Research New Brunswick New Jersey Preface The chapters herein are updated and expanded versions of presentations that the authors made at a symposium held on June 4, 1984 in Los Angeles, California under the sponsorship of the Radiopharmaceutical Science Council of the Society of Nuclear Medicine All manuscripts were refereed The intent of the symposium organizers was to enlist participants who work on a day-to-day basis with the analytical and chromatographic techniques to be discussed at the symposium We feel confident that this distillation of hands-on experience will be of value to graduate students as well as experienced researchers in radio pharmaceutical chemistry and related fields which use radiotracer methodology TID., 1965

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