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Luminescence The Scintillation Counter

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Luminescence The Scintillation Counter:

Luminescence and the Scintillation Counter Samuel Crowe Curran,1953 Organic Scintillators and Scintillation Counting Donald Horrocks,2012-12-02 Organic Scintillation and Liquid Scintillation Counting covers the proceeding of The International Conference on Organic Scintillators and Liquid Scintillation Counting which was held on July 7 10 1970 at the University of California San Francisco This conference was held to discuss ideas concerned with the theory and physics of organic scintillators and the use of liquid scintillation for radioactivity measurement and other analytical applications This text discusses liquid scintillator solvents the vacuum ultraviolet excited luminescence of organic systems and the application of scintillation counters to the assay of bioluminescence Also covered are topics such as scintillation decay and absolute efficiencies in organic liquid scintillators dose rate saturation in plastic scintillators and the mass measurements in a liquid scintillation spectrometer The book is recommended for physicists who would like to know more about the advancements in the field of organic and liquid scintillation and its applications *An Introduction to Luminescence of Solids* Humboldt W. Leverenz,1968 **Entrainment of Biological Rhythms** Rodolfo Costa,Charalambos P. Kyriacou,2021-11-02

Applications of Liquid Scintillation Counting Donald Horrocks,2012-12-02 Applications of Liquid Scintillation Counting deals with liquid scintillation counting and its applications in fields such as the biosciences medicine environmental and space sciences chemistry and physics These applications include dual labeled counting Cerenkov counting radioimmunoassay chemiluminescence and bioluminescence pulse shape discrimination flow cell counting and large volume counters This book is comprised of 18 chapters and begins with a historical overview of the liquid scintillation method the first liquid scintillation counters and early scintillator solutes The following chapters focus on the theory of liquid scintillation counting the components of the liquid scintillator solution and the development of the liquid scintillation counter and multiplier phototubes The discussion then turns to the detection and measurement of different types of particles produced by radionuclides using liquid scintillation techniques the techniques and problems of sample preparations homogeneous and heterogeneous oxidation techniques and importance and difference of several types of counting vials The sources of quenching in counting samples and methods of monitoring and correction for variable quench within samples are also considered Several special applications of liquid scintillation techniques are presented including dual labeled counting radioimmunoassay and flow cell counting In conclusion the statistical considerations involved in determining the reliability and accuracy of data obtained by nuclear counting techniques are highlighted This monograph will serve as a reliable source of information for those who are already using or starting to use liquid scintillation counting techniques **Radioactive Investigations of Oil and Gas Wells** O. A. Barsukov,N. M. Blinova,S. F. Vybornykh,2017-02-01 Radioactive Investigations of Oil and Gas Wells A Textbook focuses on the radioactive methods used in the investigations of oil and gas wells including radioactivity nuclear reactions and tracer method The book first offers information on physical principles of the radiometry of

wells and radioactive properties of rocks Discussions focus on artificial transformation of elements and nuclear reactions radioactivity and the law of radioactive disintegration natural radioactivity and induced radioactivity of rocks The text then ponders on the methods of well geometry and radiometric apparatus The publication examines the interpretation of results of measurements by the natural radioactivity method and working technique and interpretation of diagrams of the tracer method Topics include selection of the radioactive isotope and technology of preparation of activated fluid and determination of absorbing strata and of communication between the strata outside the tubing in production wells and pressurized wells The text is a dependable reference for readers interested in the radioactive methods used in the investigations of oil and gas wells

Research on Spectroscopy and Luminescence: The radioluminescence yield of organic substances, by Z.A. Chizhikova Физический институт имени П.Н. Лебедева,1962 **Research on Spectroscopy and Luminescence** Fizicheskii institut imeni P.N. Lebedeva,1962 **Handbook of Fluorescence Spectra of Aromatic Molecules** Isadore B. Berlman,1965 *Understanding the Atom, Nuclear Terms, a Brief Glossary* U.S. Atomic Energy Commission,1964
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