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Based on a course of lectures given at the Argonne National Laboratory in the summer of 1957, under the directorship of L.I. Katzin, and during the summers of 1958 and 1959, under the directorship of the author.

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[An Introduction to Nuclear Chemistry, Lecture Series, May 19 to July 19, 1942](#)

Introduction to Radiochemistry BY Gerhart Friedlander. PREFACE: An increasing number of universities are offering courses in radioactivity for chemists. Very likely many teachers and students in these courses feel as we do that there has been no suitable textbook for this purpose. There is the very excellent Manual of Radioactivity by G. Hevesy and F. A. Paneth however, advances in the science since its last edition, in 1938, have been more than any authors should have to expect in one decade. Moreover, no recent book on the subject has been written specifically for chemists. We have tried to prepare a textbook for an introductory course in the broad field of radiochemistry, at the graduate or senior undergraduate level, taking into account the degree of previous preparation in physics ordinarily possessed by chemistry students at that level. We would like to offer definitions of terms, including radiochemistry, nuclear chemistry, tracer chemistry, and radiation chemistry that are heard increasingly today. Unfortunately, the meanings of some of these vary from laboratory to laboratory, and they are hardly used concisely at all. By one group nuclear chemistry is used to mean all applications of chemistry and nuclear physics to each other including stable-isotope applications. However, to our minds nuclear chemistry emphasizes the reactions of nuclei and the properties of resulting nuclear species, just as organic chemistry is concerned with reactions and properties of organic compounds. We think of tracer chemistry as the field of chemical studies made with the use of isotopic tracers, including studies of the essentially pure tracers at extremely low concentrations. In the title of this book we have meant the term radiochemistry to include all the fields just described, but to exclude stable-isotope tracer applications. Radiation chemistry, which is not discussed in this text, deals with the chemical effects produced by nuclear and other like radiations, and although it involves some of the phenomena of radiochemistry it is really closely related to photochemistry. Some comments on the order in which the subject matter is presented are perhaps appropriate. We believe that the sequence of chapters after chapter VI is the logical one the order of presentation of the material of the first five chapters is much more nearly a matter of individual choice. Our plan, which we have found quite teachable, is to use the historical background as a brief introduction to the concepts

and terminology this makes the going much easier in the succeeding topics. Chapter V actually follows logically after chapter I, and nothing in the arrangement of the material prevents its introduction there if preferred, but we feel that it is more effective first to present further descriptive information about atomic nuclei and nuclear reactions than to confront the student at this point with the quantitative treatment of growth and decay processes. The development of the subject matter in this book has grown out of an introductory course in radiochemistry, first given in the informal Los Alamos University in the latter part of 1945 by the authors principally G. F. with the help of Drs. R. W. Dodson and A. C. Wahl, and offered each year since in the Department of Chemistry at Washington University, St. Louis, by one of us J. W. K....

Handbook of Nuclear Chemistry

Problems in Physical Chemistry for JEE (Main & Advanced), Chemistry Olympiad etc is a collection of conceptual questions along with detailed solutions. These questions are thought-provoking and cover the application of various concepts in solving problems. Questions in this book are handpicked by experienced faculty members of Career Point to enhance the following skills of the students- Understanding of concepts and their application to the grass-root level. Improving their scoring ability & accuracy by providing an opportunity to practice a variety of questions. The book approaches the subject in a very conceptual and coherent manner. Chapter-wise varieties of questions are arranged in a sequential manner to build a strong foundation of fundamentals. The coverage and features of books make it highly useful for all those preparing for JEE (Advanced) & similar advanced level exams. The book is also useful for students who are preparing for KVPY and Olympiads. This volume consists of chapter wise challenging questions with detailed explanatory solutions from the following chapters - 1. Basic Concepts of Chemistry 2. Atomic Structure 3. Gaseous State 4. Chemical Energetics 5. Redox & Volumetric Analysis 6. Chemical Equilibrium 7. Acid-Base & Ionic Equilibrium 8. Chemical Kinetics 9. Nuclear Chemistry 10. Electro Chemistry 11. Solid State 12. Solutions 13. Surface Chemistry
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