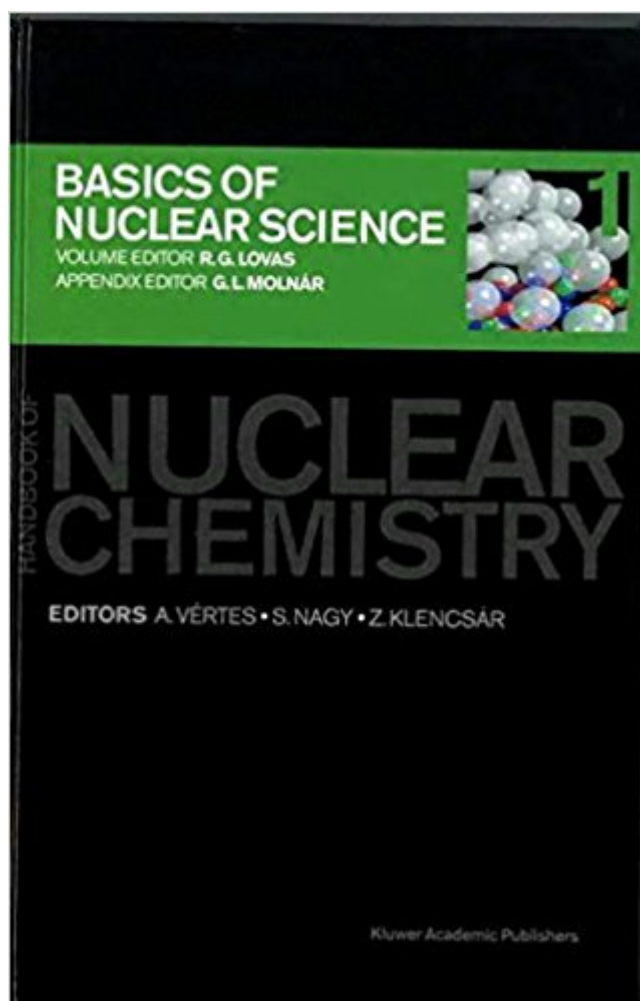




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# Handbook Of Nuclear Chemistry. FIVE VOLUME SET



## Synopsis

Impressive in its overall size and scope, this five-volume reference work provides researchers with the tools to push them into the forefront of the latest research. The Handbooks covers all of the chemical aspects of nuclear science starting from the physical basics and including such diverse areas as the chemistry of transactinides and exotic atoms as well as radioactive waste management and radiopharmaceutical chemistry relevant to nuclear medicine. The nuclear methods of the investigation of chemical structure also receive ample space and attention. The international team of authors consists of 77 world-renowned experts - nuclear chemists, radiopharmaceutical chemists and physicists - from Austria, Belgium, Germany, Great Britain, Hungary, Holland, Japan, Russia, Sweden, Switzerland and the United States. The Handbooks are an invaluable reference for nuclear scientists, biologists, chemists, physicists, physicians practicing nuclear medicine, graduate students and teachers - virtually all who are involved in the chemical and radiopharmaceutical aspects of nuclear science. The Handbooks also provide for further reading through its rich selection of references.

## Book Information

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From the reviews: " [the Editors] have displayed a comprehensive vision" far more exhaustive than any of the existing books on nuclear chemistry and/or radiochemistry. " an impressive and fascinating work" the clear arrangement of the various topics, extensive indexes in each volume, a short summary at the start of each chapter, in most chapters the use of bold characters in the text

when introducing a new concept, facilitate its use as a reference work. The appendices on units, physical constants, nuclear and atomic data, and reference materials enhance the usefulness indispensable for students and researchers in the nuclear field at large. In addition, it is also useful for scientists from the disciplines of biology, medicine, physics, and chemistry, showing the wealth of nuclear and radiochemical methods to solve their problems and to achieve progress in their fields. "...The editors have chosen the title 'Nuclear Chemistry' by the consideration that 'nuclear chemistry' and 'radiochemistry' have become practically synonymous. ...In the selection of topics they have displayed a comprehensive vision considering a large spectrum of topics, so that the handbook has become far more exhaustive than any of the existing books on nuclear chemistry and/or radiochemistry. ...Due to the wide scope, the handbook has become an impressive and fascinating work, positioning nuclear fundamentals and methods firmly and clearly within the spectrum of pure and applied natural sciences. ...Each chapter forms generally a complete whole, keeping the balance steady between conciseness and completeness, and showing liveliness due to the varying writing style of the authors. ...The chapters quite often contain a short (historical) introduction, sometimes remarks about future developments or perspectives and at the end suggested further readings, in addition to a standard list of references. The clear arrangement of the various topics, extensive indexes in each volume, a short summary at the start of each chapter, in most chapters the use of bold characters in the text when introducing a new concept, facilitate its use as a reference work. The various appendices on units, physical constants, nuclear and atomic data, and reference materials enhance the usefulness of this handbook, and justify having this handbook close at hand. ...Altogether, due to the comprehensive character this handbook is indispensable for students and researchers in the nuclear field at large. In addition, it is also useful for scientists from the disciplines of biology, medicine, physics, and chemistry, showing the wealth of nuclear and radiochemical methods to solve their problems and to achieve progress in their fields. ...The handbook is a helpful basis for scientists to disseminate relevant and interesting information on nuclear topics to a large public. In particular showing that nuclear and associated radiation aspects are quite natural phenomena (human life on earth today would not exist without), and especially that mankind has benefited much and still may benefit in many respects from a variety of nuclear techniques and methods when properly use. ..." Taken from a review for Structural Chemistry (2005) by Jeroen J.M. de Goeij, Interfaculty Reactor Institute, Delft University of Technology & Cyclotron Group, Physics Department, Eindhoven University of Technology, The Netherlands. No similar complete opera has ever been available on the editorial market. of relevance for scientists dealing with radiation physics and chemistry, materials sciences, applied

nuclear physics, biophysics, radiobiology, radiopharmaceutical chemistry, nuclear medicine, radiation protection, environmental sciences, and all fields in which the powerful energy of the atomic nucleus is required and advantageously utilized. It is clearly written and completed with essential and updated specialized bibliography. Taken from a review for Radiation Chemistry and Physics (2005) by Mauro L. Bonardi, Coordinatore Gruppo Interdivisionale di Radiochimica LASA, Università degli Studi e INFN, Italy. It authoritatively surveys all of the chemical aspects of the dynamic field of nuclear science. The international team of 77 authors consists of world-renowned nuclear chemists, radiopharmaceutical chemists, and physicists. It contains hundreds of tables, figures, and mathematical and nuclear equations. It provides an extensive selection of references. The international system of units (SI) is used consistently throughout the handbook. Like many other Kluwer reference works, the Handbook of Nuclear Chemistry is available online. It is an invaluable, comprehensive, and cutting-edge reference for nuclear scientists, chemists, biologists, physicists, physicians practicing nuclear medicine, chemical educators, graduate students, and anyone involved in the chemical and radiopharmaceutical aspects of nuclear science. It also belongs in academic, industrial, and technical libraries. Taken from a review on ChemoNet (2005) by George B. Kauffman, California State University, USA. ... much to offer undergraduate and graduate students who are interested in careers in radio/nuclear chemistry... Overall, these five volumes offer a uniquely comprehensive presentation of the major areas of research and technology in nuclear and radiochemistry. They offer students valuable instructions and, also, serve as an important reference source for research scientists. Taken from a review in The Journal of Radioanalytical and Nuclear Chemistry (2004) by G. R. Choppin, J. N. Mathur, D. K. Singh, M. S. Mallekav, & P. Thakur, Florida State University, USA. "The 20th century has been called the 'Nuclear Age'.

Therefore the publication of the Handbook of Nuclear Chemistry, which authoritatively surveys all of the chemical aspects of the dynamic field of nuclear science is most welcome. It contains hundreds of tables, figures, and mathematical and nuclear equations. It provides an extensive selection of references. It provides access to further reading in the field. It is an invaluable, comprehensive, and cutting-edge reference for nuclear scientists, chemists, biologists, physicists. It also belongs in academic, industrial, and technical libraries." (George B. Kauffman, Chemical Educator, 2005) "The five volume set comprise. Volume 1 with eight chapters and an Appendix, discusses the history of nuclear and radiochemistry. Volume 2 consists of ten chapters and covers the details of the radioactive elements. Volume 3 is comprised of eleven chapters and an Appendix. ... Volume 4 consists of 10 chapters. Volume 5 has nine chapters and a well compiled, informative Appendix. These five volumes offer a uniquely comprehensive presentation of the major areas of research

and technology in nuclear and radiochemistry. They offer students valuable instructions & |." (G.R. Choppin, J.N. Mathur, D.K. Singh, M.S. Mallekav, P. Thakur, Journal of Radioanalytical and Nuclear Chemistry, Vol. 261 (3), 2004) "The Handbook of Nuclear Chemistry & | is written by well recognized stakeholders in the different topics, and has its main routes in chemistry and in nuclear science at large. It is mainly addressed to specialists in different nuclear fields, nonetheless it contains an advanced set of information for students at Ph.D. level & |. The chapters are clearly written and completed with essential and updated specialized bibliography. A number of Appendices with numerical data, fundamental constants and nuclide tables complete the opera." (Mauro L. Bonardi, Radiation Physics and Chemistry, Vol. 72, 2005) "I have these five volumes, each of which comprises about 500 pages and documents the present knowledge on nuclear chemistry. & | Viewed together, they constitute a real encyclopaedia on nuclear chemistry, and the editors are to be applauded & |. I have found the volumes very helpful not only for updating my knowledge but also for teaching & |. I would recommend, without reservation, that these five volumes find a place on the bookshelves of all colleagues who have anything to do with nuclear chemistry." (H. S. Balter and E. K. J. Pauwels, European Journal of Nuclear Medicine and Molecular Imaging, Vol. 32 (12), December, 2005)

This book is to frikkin' expensive and it is to elementary for my students. It reads as if a kindergarten student in Arkansas wrote it.-Professor Chris McLallen

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