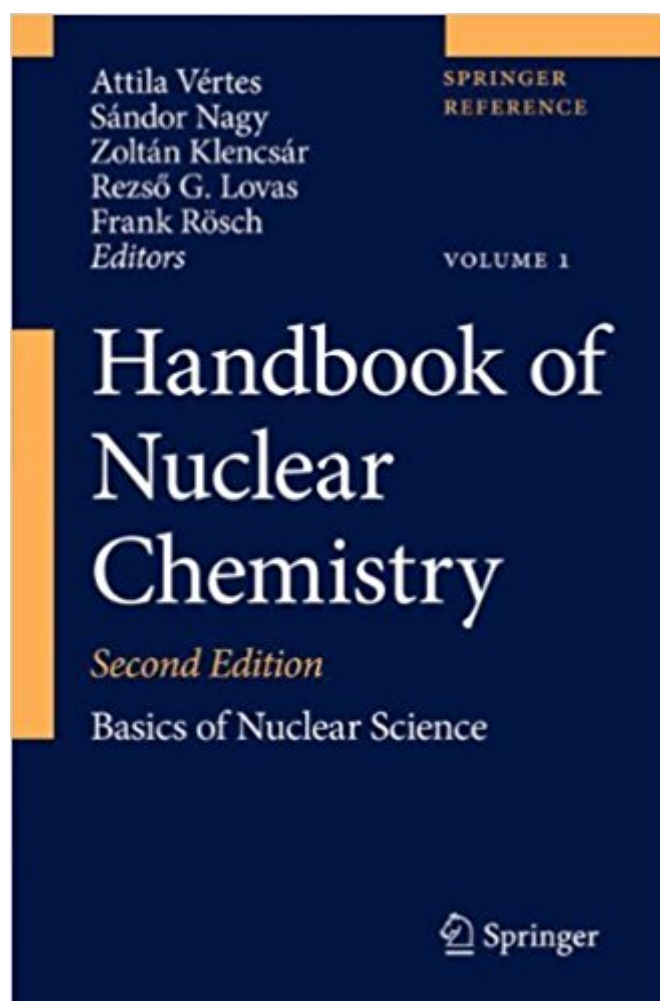


The book was found

Handbook Of Nuclear Chemistry: Vol. 1: Basics Of Nuclear Science; Vol. 2: Elements And Isotopes: Formation, Transformation, Distribution; Vol. 3: ... Nuclear Energy Production And Safety Issues.





Synopsis

This revised and extended 6 volume handbook set is the most comprehensive and voluminous reference work of its kind in the field of nuclear chemistry. The Handbook set 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 scores of world-renowned experts - nuclear chemists, radiopharmaceutical chemists and physicists - from Europe, USA, and Asia. The Handbook set is 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 Handbook set also provides further reading via the rich selection of references.

Book Information

Series: Handbook of Nuclear Chemistry

Hardcover: 3008 pages

Publisher: Springer; 2nd ed. 2011 edition (December 10, 2010)

Language: English

ISBN-10: 144190719X

ISBN-13: 978-1441907196

Product Dimensions: 9.4 x 6.5 x 4.9 inches

Shipping Weight: 13.2 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 1 customer review

Best Sellers Rank: #1,591,400 in Books (See Top 100 in Books) #38 in Books > Science & Math > Chemistry > Nuclear Chemistry #266 in Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Nuclear #330 in Books > Science & Math > Chemistry > Inorganic

Due to this item's unusual size or weight, it requires special handling and will ship separately from other items in your order. [Read More](#)

Customer Reviews

“This is a very complete particle physics textbook. Nuclear Medicine physics and radiation oncology have an entire volume devoted in this discussion background text.” | This encyclopedia

and principle resource should help nuclear physics specialists.â • (Joseph J. Grenier, .com, September, 2015)From the reviews of the 1st Edition:"â [[the Editors] have displayed a comprehensive visionâ | far more exhaustive than any of the existing books on nuclear chemistry and/or radiochemistry. â | an impressive and fascinating workâ | 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. â | appendices on units, physical constants, nuclear and atomic data, and reference materials enhance the usefulnessâ | 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 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. ..." (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. clearly written and completed with essential and updated specialized bibliography." (Radiation Chemistry and Physics (2005) by Mauro L. Bonardi, Coordinatore Gruppo Interdivisionale di Radiochimica LASA, Università degli Studi e INFN, Italy) "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 contains hundreds of tables, figures, and mathematical and nuclear equations. 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. 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." (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." (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. contains hundreds of tables, figures, and mathematical and nuclear equations. The extensive selection of references provides access to further reading in the field. 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. Volume1 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)/P>

Handbook of Nuclear Chemistry Springer Verlag J Grenier PhD MD This is a very complete particle physics textbook. Nuclear Medicine physics and radiation oncology have an entire volume devoted in this discussion background text. The role of nuclear chemistry, particle physics, radiation treatment, fission, fusion, decay characteristics, and protection have several comprehensive sections of coverage in this encyclopedic approach to the periodic chart of elements. Transactinide, transuranium, groups and their decay evolution are described Flow charts, useful concepts, equations and tables with their derivations are in 1000s of mathematical symbols.

Bohr's, Heisenberg's, Schrodinger's, Einstein's & Planck's theories and formulae are all included here. Cyclotrons, concepts of thermodynamics, PET, NMR, SPECT imaging and their underlying math principles have whole sections and chapters devoted to them This encyclopedia and principle resource should help nuclear physics specialists.

[Download to continue reading...](#)

Handbook of Nuclear Chemistry: Vol. 1: Basics of Nuclear Science; Vol. 2: Elements and Isotopes: Formation, Transformation, Distribution; Vol. 3: ... Nuclear Energy Production and Safety Issues. Nuclear energy. Radioactivity. Engineering in Nuclear Power Plants: Easy course for understanding nuclear energy and engineering in nuclear power plants (Radioactive Disintegration) The Coal Handbook: Towards Cleaner Production: Volume 1: Coal Production (Woodhead Publishing Series in Energy) Nuclear Prepared - How to Prepare for a Nuclear Attack and What to do Following a Nuclear Blast: Everything you Need to Know to Plan and Prepare for a Nuclear Attack Secondary and Solvent Isotope Effects (Isotopes in Organic Chemistry) (v. 7) Modern Radio Production: Production Programming & Performance (Wadsworth Series in Broadcast and Production) Reiki: The Healing Energy of Reiki - Beginner's Guide for Reiki Energy and Spiritual Healing: Reiki: Easy and Simple Energy Healing Techniques Using the ... Energy Healing for Beginners Book 1) Fullpower Safety Comics: People Safety Skills for Teens and Adults (Kidpower Safety Comics) Kidpower Youth Safety Comics: People Safety Skills For Kids Ages 9-14 (Kidpower Safety Comics) McGraw-Hill's National Electrical Safety Code 2017 Handbook (Mcgraw Hill's National Electrical Safety Code Handbook) Digital Instrumentation and Control Systems in Nuclear Power Plants: Safety and Reliability Issues Nuclear Reaction Data and Nuclear Reactors: Physics, Design, and Safety Ace General Chemistry I and II (The EASY Guide to Ace General Chemistry I and II): General Chemistry Study Guide, General Chemistry Review Basics Photography 04: Post Production Black & White (Basics Photography 1) Basics Photography 05: Post Production Colour (Basics Photography 1) Study Guide: Ace Organic Chemistry I - The EASY Guide to Ace Organic Chemistry I: (Organic Chemistry Study Guide, Organic Chemistry Review, Concepts, Reaction Mechanisms and Summaries) Energy Production and Alternative Energy (Confronting Global Warming) Elements of Polymer Science & Engineering, Second Edition: An Introductory Text and Reference for Engineers and Chemists (The Elements of Polymer Science and Engineering) The Elements of Polymer Science and Engineering, Third Edition (Elements of Polymer Science & Engineering) The Elements of Polymer Science and Engineering (Elements of Polymer Science & Engineering)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

