



Radiochemistry and Nuclear Chemistry, Fourth Edition

By Gregory Choppin, Jan-Olov Liljenzin, Jan Rydberg, Christian Ekberg

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Radiochemistry or nuclear chemistry is the study of radiation from an atomic and molecular perspective, including elemental transformation and reaction effects, as well as physical, health and medical properties.

This revised edition of one of the earliest and best-known books on the subject has been updated to bring into teaching the latest developments in research and the current hot topics in the field. To further enhance the functionality of this text, the authors have added numerous teaching aids, examples in MathCAD with variable quantities and options, hotlinks to relevant text sections from the book, and online self-grading tests.

- New edition of a well-known, respected text in the specialized field of nuclear/radiochemistry
- Includes an interactive website with testing and evaluation modules based on exercises in the book
- Suitable for both radiochemistry and nuclear chemistry courses

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Editorial Review

Review

Reviews of the second edition: "The book fully meets the authors objectives, it is well written in a logical, objective, thought-provoking and quite easily readable style. It should appeal to the serious student of radio- and nuclear chemistry at either undergraduate or postgraduate level, as well as to readers with a more general interest in nuclear science and its impact on the environment." --**Applied Radiation and Isotopes, July 1995**

"This book is an excellent, readable account of a significant part of the scientific achievements of more than half this century. The authors have dedicated the book to Nobel Laureate Glenn T. Seaborg and its scholarship makes it a fitting tribute." --**Radiological Protection Bulletin, December 1995**

From the Back Cover

This revised edition of one of the earliest and best-known books on the subject has been updated to bring into teaching the latest developments in research and the hot topics in the Radiochemistry and Nuclear Chemistry fields including nuclear power and cosmic radiation.

Radiochemistry and Nuclear Chemistry, 4thedintroduces and explains the theory and background of the physics and chemistry behind nuclear processes and radioactive decay, examines the origin of the elements in the universe and investigates the key applications e.g. medical radiation, and presents balanced views of topics including nuclear power, nuclear accidents like Fukushima, and the management of nuclear waste.

Key Features:

- A completely updated edition of a respected text in the specialized field of nuclear/radiochemistry
- New numbering of formulas and equations in order to make referencing them easier
- Ideal for both radiochemistry and nuclear chemistry courses, as well as nuclear medicine, physic and imaging topics
- Now includes up to date content on Elementary particles, The Origin of the Universe, Cosmic Radiation and Long-lived Radioelements, Nuclear energy, Severe accidents, and The Management of Nuclear Waste
- Includes an interactive website with testing and evaluation modules based on the exercises in the text

Chapters include questions and answers to test your understanding of the topics

Simply explains all aspects of nuclear and radiochemistry - ideally suitable for radiochemistry and nuclear chemistry courses.

About the Author

Christian Ekberg is a full professor in Industrial Materials Recycling (since 2007) as well as a full professor in Nuclear Chemistry (since 2012) at Chalmers University of Technology, Göteborg, Sweden. He is also an elected member of the Royal Swedish Academy for Engineering Sciences. The main research focus on the last 25 years has been solution chemistry of the lightest to the heaviest elements in the periodic table

(thermodynamics, solvent extraction etc) as well as statistical uncertainty analysis. In later years the focus has started to include recycling processes from various sources as well as the new Gen IV nuclear reactor systems. He has published more than 120 reviewed scientific papers.

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