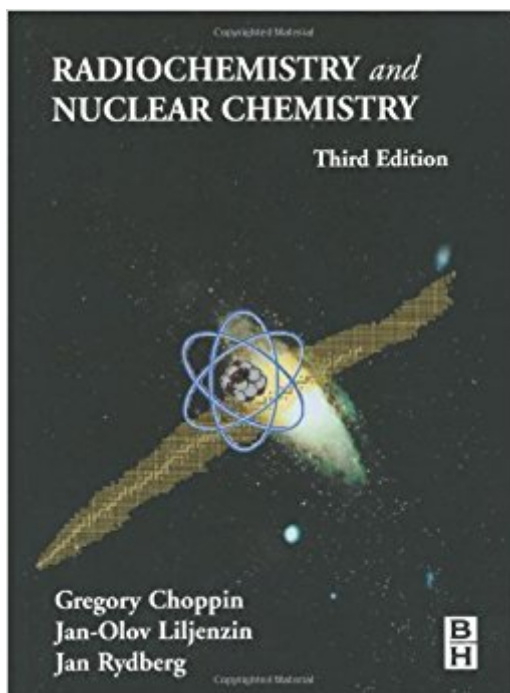


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# Radiochemistry And Nuclear Chemistry, Third Edition



## Synopsis

Radiochemistry or Nuclear Chemistry is the study of radiation from an atomic or 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. In order to further enhance the functionality of this text, the authors have added numerous teaching aids that include an interactive website that features testing, examples in MathCAD with variable quantities and options, hotlinks to relevant text sections from the book, and online self-grading texts. As in the previous edition, readers can closely follow the structure of the chapters from the broad introduction through the more in depth descriptions of radiochemistry then nuclear radiation chemistry and finally the guide to nuclear energy (including energy production, fuel cycle, and waste management). 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.

## Book Information

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## Customer Reviews

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

As in the previous edition, readers can closely follow the structure of the chapters from the broad introduction through the more in depth descriptions of radiochemistry then nuclear radiation chemistry and finally the guide to nuclear energy (including energy production, fuel cycle, and waste management).

Overall, this book is decent for a graduate level radiochemistry class. It has a lot of problems, although some of the answers seem to be at odds with those that we and our instructor got. I have used this for a reference book in addition to the Freidlander book, but this one is perhaps a bit easier to read and understand. There are lots of tables and figures reproduced in this book, so this book is quite helpful if you're wanting to calculate the probability of certain processes (e.g. what will happen if my gamma ray of a certain energy interacts with matter).

It's a nice overview. Easy to read. It has no references more recent than about the year 2000. Some strange omissions, such as no discussions of Currie Limit and MDA.

Used as a text book for an introduction to radiochem course, so far it has been an extremely helpful and thorough text.

This book gives you a good state of art on most of radiochemistry-engineering topics related to the nuclear field. For the price it sells at a very good deal.

This book is well written in a very readable style. It is logical in its approach and covers a wide variety of topics within the nuclear sciences. It should appeal to the serious scholar of radiochemistry at both the undergraduate or postgraduate level. It is also worthy of note that the authors have dedicated the book to Nobel Laureate Glenn T. Seaborg. The new edition of a well-known, respected text in the specialized field of nuclear chemistry includes an interactive website with testing and evaluation modules based on exercises in the book. Although the text does not cover practical radiometric separations in great detail, it does provide the reader with a strong overview of this important field of science.

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