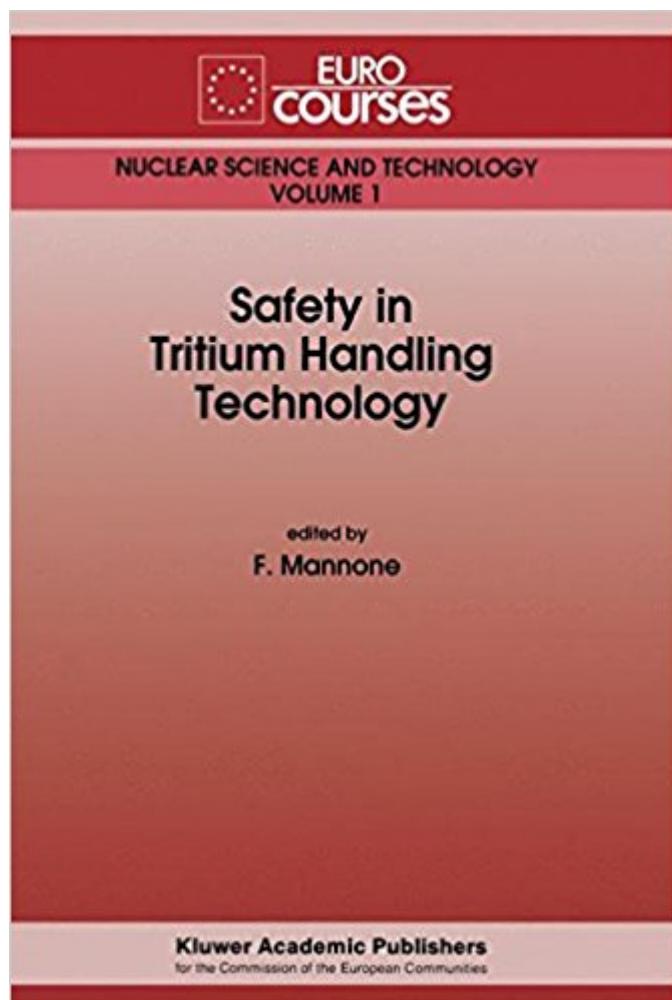


The book was found

# Safety In Tritium Handling Technology (Eurocourses: Nuclear Science And Technology)



## **Synopsis**

The use of tritium as a basic fuel material in a thermonuclear fusion reactor raises particular safety issues due to the combined effects of its physico-chemical properties and radioactive nature. Furthermore the possibility of attaining further significant progresses in developing and demonstrating the feasibility of tritium burning devices relies on the handling of tritium macroquantities, say ten grammes, in a safe and reliable manner. It is also undoubted that, apart from technological constraints, any validation and exploitation of thermonuclear fusion as a source of energy will be strongly conditioned by the application of stringent operational and environmental safety criteria as it derives from norms of the modern legislation and public acceptance considerations. Even if the safe handling of tritium has already been demonstrated to be feasible on a full fuel cycle scale, it is unanimously recognized that further efforts are still to be concentrated on the improvement of current concepts and development of advanced technologies. Some of the areas requiring substantial additional efforts are plasma exhaust fuel clean-up, tritium pellet injection, processing of inert carrier gas, development of large free-oil pumps, tritium process analytics, development of large detritiation systems, beryllium-tritium interaction studies, tritium hold-up studies in getter beds, adsorbers and structural materials, tritium recovery from first wall, structural and breeder materials for minimizing tritiated waste arising, tritium storage technology, tritiated waste disposal technology, methodology for routine tritium accountancy, etc. . . Most of them are intrinsically related to the safety requirement of tritium technology.

## **Book Information**

Series: Eurocourses: Nuclear Science and Technology (Book 1)

Hardcover: 236 pages

Publisher: Springer; 1993 edition (September 30, 1993)

Language: English

ISBN-10: 0792325117

ISBN-13: 978-0792325116

Product Dimensions: 6.1 x 0.7 x 9.2 inches

Shipping Weight: 1.2 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #15,346,010 in Books (See Top 100 in Books) #76 in Books > Textbooks > Engineering > Nuclear Engineering #2808 in Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Nuclear #3082 in Books > Engineering &

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

Safety in Tritium Handling Technology (Eurocourses: Nuclear Science and Technology) 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 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 Nuclear energy. Radioactivity. Engineering in Nuclear Power Plants: Easy course for understanding nuclear energy and engineering in nuclear power plants (Radioactive Disintegration) Advances in Nuclear Science and Technology: Volume 22 (Advances in Nuclear Science & Technology) Teleoperation: Numerical Simulation and Experimental Validation (Eurocourses: Computer and Information Science) Nuclear Reaction Data and Nuclear Reactors: Physics, Design, and Safety Chapman Piloting: Seamanship & Small Boat Handling (Chapman Piloting, Seamanship and Small Boat Handling) Towel Wrap Techniques for Handling Cats with Skill and Ease (Low Stress Handling Seminar) Horse Handling & Grooming: Haltering \* Leading & Tying \* Bathing & Clipping \* Grooming & Braiding \* Handling Hooves (Horsekeeping Skills Library) 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) A Dictionary of Nuclear Power and Waste Management With Abbreviations and Acronyms (Research Studies in Nuclear Technology) Nuclear Engineering: Theory and Technology of Commercial Nuclear Power Introduction to Nuclear Engineering (Addison-Wesley series in nuclear science and engineering) Data Analysis and Signal Processing in Chromatography, Volume 21 (Data Handling in Science and Technology) Surgery of the Shoulder (Data Handling in Science and Technology) Nuclear War Survival Skills: Lifesaving Nuclear Facts and Self-Help Instructions Essentials of Nuclear Medicine Imaging: Expert Consult - Online and Print, 6e (Essentials of Nuclear Medicine Imaging (Mettler)) Radiopharmaceuticals in Nuclear Pharmacy and Nuclear Medicine

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)