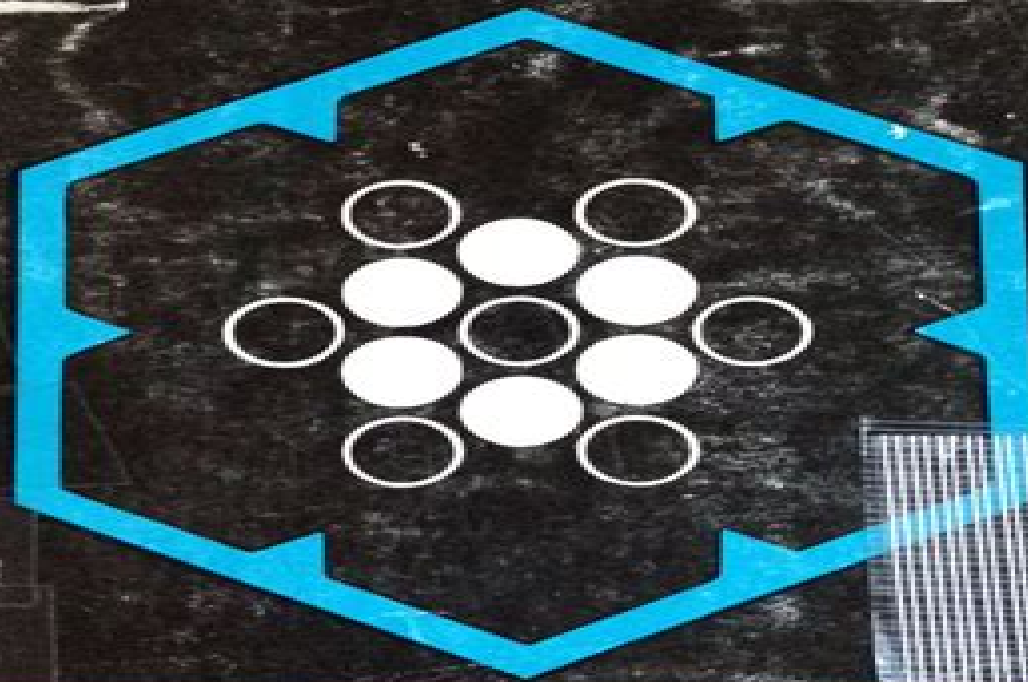


# reactor shielding for nuclear engineers

N.M. SCHAEFFER

U.S. ATOMIC ENERGY COMMISSION Office of Information Services



# Reactor Shielding For Nuclear Engineers

**PT Brinkman**

A decorative red circular graphic with a gradient, appearing as a partial circle or arc, located to the right of the author's name.

## **Reactor Shielding For Nuclear Engineers:**

**Reactor Shielding for Nuclear Engineers** Norman Morris Schaeffer, 1973      **Reactor Shielding for Nuclear Engineers**, 1973      *Reactor Shielding for Nuclear Engineers*. N. M. Schaeffer, Editor Norman Morris Schaeffer, 1973      REACTOR SHIELDING FOR NUCLEAR ENGINEERS. N. M. SCHAEFFER, ED. PREPARED FOR DIVISION OF REACTOR DEVELOPMENT AND TECHNOLOGY U. S. ATOMIC ENERGY COMM., 1976      *Nuclear Reactor Shielding* John Raymond Harrison, 1958      **The Attenuation of Gamma Rays and Neutrons in Reactor Shields** Herbert Goldstein, 1957      **Engineering Thermofluids** Mahmoud Massoud, 2005-09-16

Thermofluids while a relatively modern term is applied to the well established field of thermal sciences which is comprised of various intertwined disciplines Thus mass momentum and heat transfer constitute the fundamentals of thermofluids This book discusses thermofluids in the context of thermodynamics single and two phase flow as well as heat transfer associated with single and two phase flows Traditionally the field of thermal sciences is taught in universities by requiring students to study engineering thermodynamics fluid mechanics and heat transfer in that order In graduate school these topics are discussed at more advanced levels In recent years however there have been attempts to integrate these topics through a unified approach This approach makes sense as thermal design of widely varied systems ranging from hair dryers to semiconductor chips to jet engines to nuclear power plants is based on the conservation equations of mass momentum angular momentum energy and the second law of thermodynamics While integrating these topics has recently gained popularity it is hardly a new approach For example Bird Stewart and Lightfoot in Transport Phenomena Rohsenow and Choi in Heat Mass and Momentum Transfer El Wakil in Nuclear Heat Transport and Todreas and Kazimi in Nuclear Systems have pursued a similar approach These books however have been designed for advanced graduate level courses More recently undergraduate books using an integral approach are appearing      *Technical Books & Monographs Sponsored by the U.S. Atomic Energy Commission* U.S. Atomic Energy Commission,      **Engineering Compendium on Radiation Shielding** International Atomic Energy Agency, 2013-06-29

The need has arisen for a comprehensive handbook for engineers faced with problems of radiation shielding design Although there are several excellent books on shielding they either do not give enough consideration to the many practical design problems or are limited to special aspects of the subject Recognizing the universal need the International Atomic Energy Agency decided to sponsor the publication of the present Engineering Compendium on Radiation Shielding At the first editorial discussions it was agreed that if such a book were to be undertaken it would be appropriate not only to create a useful design tool for the practising engineer but also to include well referenced basic data for the research worker Although trying to keep the book down to a reasonable size the editors have aimed at a complete presentation of the subject covering and linking both the technology and the science of shielding Efforts to make terms and definitions consistent throughout have been only partially successful owing to the continuing development of new ideas

However inconsistencies that could not be eliminated are identified whenever possible      **Accessions of Unlimited**  
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