

# Engineering Compendium on Radiation Shielding

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Prepared by numerous specialists

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**Volume II    Shielding Materials**

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# Engineering Compendium On Radiation Shielding

## Volume 2 Shielding Materials

**International Atomic Energy Agency**



## **Engineering Compendium On Radiation Shielding Volume 2 Shielding Materials:**

Engineering Compendium on Radiation Shielding R.G. Jaeger, E.P. Blizard, A.B. Chilton, M. Grotenhuis, A. Hönig, T.A. Jaeger, H.H. Eisenlohr, 1975 The utilization of nuclear energy makes great demands on the knowledge of the engineers engaged in design work and calculations relating to construction in nuclear industry Apart of course from nuclear reactors themselves a great deal of nuclear experience is involved in the design and construction of radiotherapy centres non destructive testing laboratories particle accelerators radioisotope laboratories and nuclear research plants Whereas in the USA there appears to be no great difference in the methods of training personnel for fundamental or for applied science European universities draw a sharp dividing line between the two fields However if we consider graduates solely from the point of view of their activities at their place of employment two types of personnel can be distinguished scientifically oriented research workers and those with a more technical and practical background who are looking for rational and rapid methods and solutions even at some expense in terms of accuracy The Engineering Compendium on Radiation Shielding endeavours to cover both approaches the scientific and the technical Volume I was devoted to the fundamental aspects of shielding while Volumes II and III discuss its technology Nuclear Science Abstracts, 1976 *Engineering Compendium on Radiation Shielding* R.G. Jaeger, E.P. Blizard, A.B. Chilton, M. Grotenhuis, A. Hönig, T.A. Jaeger, H.H. Eisenlohr, 1970-01-01 Sponsored by International Atomic Energy Agency Vienna Engineering compendium on radiation shielding R. G. Jaeger, 1968 *ERDA Energy Research Abstracts* United States. Energy Research and Development Administration, 1976

*ERDA Energy Research Abstracts* United States. Energy Research and Development Administration. Technical Information Center, 1976 **ERDA Energy Research Abstracts**, 1976 **Radiation Protection for Particle Accelerator Facilities** National Council on Radiation Protection and Measurements, 2003 The purpose of this Report is to provide design guidelines for radiation protection and to identify those aspects of radiological safety that are of major or even unique importance to the operation of particle accelerator installations and to suggest methods by which safe operation may be achieved The report is written from an engineering physics viewpoint and is intended to be useful to those engaged in the design and operation of accelerators particularly in smaller institutions and organizations that do not have a large radiological protection staff *Accelerator Radiation Protection* G. R. Stevenson, 2001 *Books in Print*, 1981

**Technical Reports Series**, 1988 **Nuclear Engineering International**, 1969 **Concrete Radiation Shielding** M. F. Kaplan, 1989 A discussion of concrete radiation shielding dealing with relevant atomic and nuclear physics properties of radiation materials for and properties of concrete and the design and cost of shielding together with other important aspects Scientific and Technical Books and Serials in Print, 1989 *Transactions of the American Nuclear Society* American Nuclear Society, 1992 *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

**Quality Technology Handbook** Roy Samuel Sharpe, 1984 **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration, 1976 *Handbooks and Tables in Science and Technology* Russell H. Powell, 1983 The eagerly awaited third edition of this important resource provides a listing of over 3 600 scientific and technical handbooks in the hard sciences with over 650 new to this edition All entries have complete bibliographic citations and most offer brief annotations that describe the content Serving as both a research and collection development tool *Handbooks and Tables in Science and Technology* was created for users in science and engineering libraries special and academic libraries and public libraries with large sci tech collections Copyright Libri GmbH All rights reserved

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