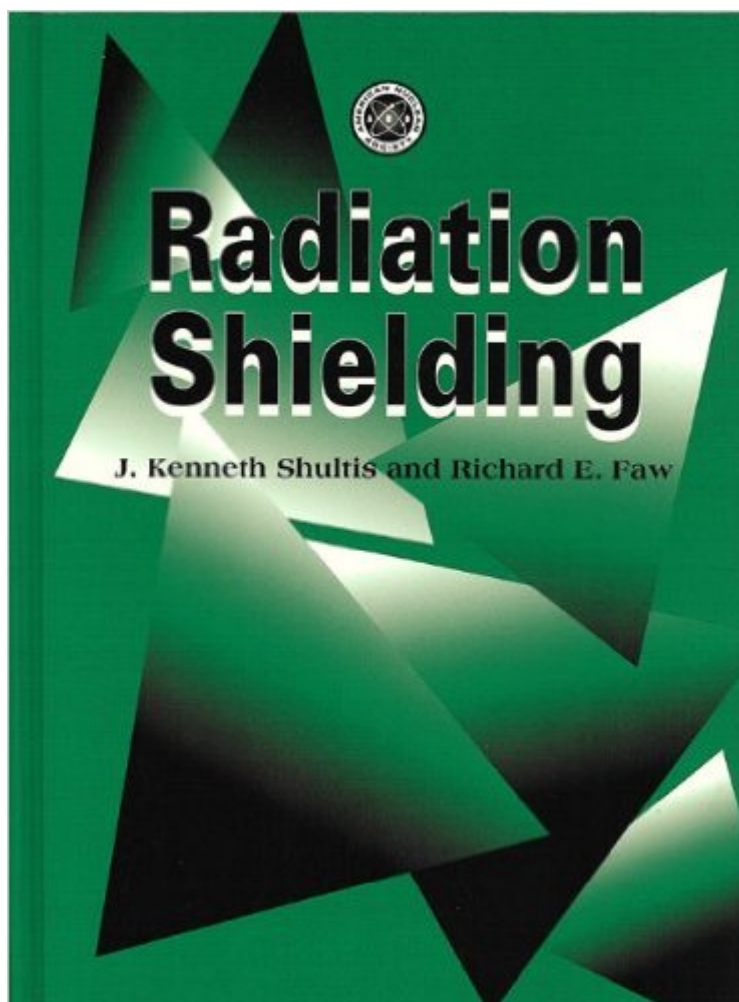


The book was found

Radiation Shielding



Synopsis

3 Mile Island. Chernobyl. Nuclear meltdowns that can spell disaster for decades to come. For a number of professions including nuclear engineering, environmental engineering, radiology, and space physics, the most hazardous aspect of the job is the proper handling of radioactive material and the assessment of radiation doses. This book provides an understanding of the principles and techniques used in modern radiation shield design and analysis. --This text refers to an out of print or unavailable edition of this title.

Book Information

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Customer Reviews

Hoi lanu, hoi lanu -- Woe unto us, woe unto us -- there are, as yet, no truly educational, useful, practical textbooks from which to learn the discipline of radiation shielding. This book by professors Shultis & Faw is a valuable reference work, but not a practical textbook to teach a course on radiation shielding from. I have taught postgraduate modules in Radiation Shielding, Radiation Protection and Nuclear Physics for Nuclear Engineers, annually since 1991, and this textbook is simply not an ideal teaching tool. Like most other books on radiation transport & shielding, this book derives, with great travail of soul, a rather bewildering succession of hundreds upon hundreds of usually approximate, analytical formulations to enable "approximate calculations by hand" of radiation behaviour, radiation attenuation, dose rate, and more. In end-of-chapter exercises, students are then required to apply these approximate, inaccurate analytical expressions to solve an equally bewildering variety of problems with approximate manual calculations, in order to gain

experience in the subject. The real-life situation in the 21st century, is that shielding analysts use powerful codes running on fast digital computers to solve radiation transport and shielding problems. The practicing shielding analyst therefore requires the following knowledge and skills: 1) A broad, encyclopedic mastery of the physics concepts that govern ionising radiation emission, radiation transport and radiation dosimetry; 2) A broad, encyclopedic mastery of the characteristic abilities of engineering materials available for radiation shielding; 3) The ability to model radiation transport problems using a range of state-of-the-art radiation transport codes, e.g. SCALE 6.

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