

Grade 12 2015 June Physics Memo

Cobalt Blues Particle-accelerator Decommissioning A New Dimension, Wallops Island Flight Test Range Memorandum Tax Court Memorandum Decisions Report Announcement Bulletin, Unclassified Reports for Civilian Applications Nukleonika Princeton Conference Series Title Announcement Bulletin State Variable Results for Minimal Capacitor Integrated Circuits Progress Report, Nuclear Engineering Department Catalogue, Books and Journals in Advanced Mathematics Reports and Memoranda Subject Index to Unclassified ASTIA Documents Forum Memo to Members Fusion Technology T.C. Memorandum Decisions Ramjets ITER Outline Design Weekly Selected Reading List Peter R. Almond J. H. Opelka Joseph Adams Shortal Commerce Clearing House U.S. Atomic Energy Commission Stanford University. Stanford Electronics Laboratories Brookhaven National Laboratory. Nuclear Engineering Department American Mathematical Society Defense Documentation Center (U.S.) United States. Tax Court Gordon L. Dugger Brookhaven National Laboratory

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for the last half of the 20th century cobalt 60 units were the mainstay of radiation treatments for cancer this book describes the development of the first cobalt 60 unit in the united states and the man behind it leonard grimmett conceptually conceived before world war ii it only became possible because of the development of nuclear reactors during the war the initial idea was to replace the radium in the contemporary units of the time with cobalt 60 but with the realization that the reactors could produce much more cobalt 60 than originally thought the design of the cobalt 60 unit was drastically changed to take advantage that the application of the inverse square law to cancer radiation treatments would make although grimmett conceived of and published his ideas first the canadians built the first units because of the capability of their reactor to produce more suitable cobalt 60 sources the story tells how grimmett and the other people involved came together at the time that the u s atomic energy agency was pushing the use of radioactivity in medicine but grimmett died suddenly before his unit could be built and very little information about him was known until recently when various documents have come to light allowing the full story to be told

generic considerations involved in decommissioning particle accelerators are examined there are presently several hundred accelerators operating in the united states that can produce material containing nonnegligible residual radioactivity residual radioactivity after final shutdown is generally short lived induced activity and is localized in hot spots around the beam line the decommissioning options addressed are mothballing entombment dismantlement with interim storage and dismantlement with disposal the recycle of components or entire accelerators following dismantlement is a definite possibility and has occurred in the past accelerator components can be recycled either immediately at accelerator shutdown or following a period of storage depending

on the nature of induced activation considerations of cost radioactive waste and radiological health are presented for four prototypic accelerators prototypes considered range from small accelerators having minimal amounts of radioactive material to a very large accelerator having massive components containing nonnegligible amounts of induced activation archival information on past decommissionings is presented and recommendations concerning regulations and accelerator design that will aid in the decommissioning of an accelerator are given

contains the full texts of all tax court decisions entered from oct 24 1942 to date with case table and topical index

the u s atomic energy commission is conducting a large scale review of its research and development reports to make as much information as possible available through the civilian application program report announcement bulletin unclassified reports for civilian applications is being published to announce immediately the release of newly declassified reports all reports announced in the bulletin are available from office of technical services department of commerce washington 25 d c at the price listed with each title p iii

using techniques of state variable realization theory methods of synthesizing rational matrices are outlined which are inherently convenient for integrated circuit structures since only resistors operational amplifiers and a minimum number of capacitors need be used

beginning with no 650 each hundredth number contains a list of the reports and memoranda published since the last list

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