

A Slow Death 83 Days Of Radiation Sickness

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To Hell and Back Charles Pellegrino 2015-08-06 Drawing on the voices of atomic bomb survivors and the new science of forensic archaeology, Charles Pellegrino describes the events and the aftermath of two days in August when nuclear devices, detonated over Japan, changed life on Earth forever. *To Hell and Back* offers readers a stunning, “you are there” time capsule, wrapped in elegant prose. Charles Pellegrino’s scientific authority and close relationship with the A-bomb survivors make his account the most gripping and authoritative ever written. At the narrative’s core are eyewitness accounts of those who experienced the atomic explosions firsthand—the Japanese civilians on the ground. As the first city targeted, Hiroshima is the focus of most histories. Pellegrino gives equal weight to the bombing of Nagasaki, symbolized by the thirty people who are known to have fled Hiroshima for Nagasaki—where they arrived just in time to survive the second bomb. One of them, Tsutomu Yamaguchi, is the only person who experienced the full effects of both cataclysms within Ground Zero. The second time, the blast effects were diverted around the stairwell behind which Yamaguchi’s office conference was convened—placing him and few others in a shock cocoon that offered protection while the entire building disappeared around them. Pellegrino weaves spellbinding stories together within an illustrated narrative that challenges the “official report,” showing exactly what happened in Hiroshima and Nagasaki—and why. Also available from compatible vendors is an enhanced e-book version containing never-before-seen video clips of the survivors, their descendants, and the cities as they are today. Filmed by the author during his research in Japan, these 18 videos are placed throughout the text, taking readers beyond the page and offering an eye-opening and personal way to understand how the effects of the atomic bombs are still felt 70 years after detonation.

A Slow Death: 83 Days of Radiation Sickness 2015-12-08 Japan's worst nuclear radiation accident took place at a uranium reprocessing facility in Tokaimura, northeast of Tokyo, on 30 September 1999. The direct cause of the accident was cited as the depositing of a uranyl nitrate solution--containing about 16.6 kg of uranium, which exceeded the critical mass--into a precipitation tank. Three workers were exposed to extreme doses of radiation. Hiroshi Ouchi, one of these workers, was transferred to the University of Tokyo Hospital Emergency Room, three days after the accident. Dr. Maekawa and his staff initially thought that Ouchi looked relatively well for a person exposed to such radiation levels. He could talk, and only his right hand was a little swollen with redness. However, his condition gradually weakened as the radioactivity broke down the chromosomes in his cells. The doctors were at a loss as to what to do. There were very few precedents and proven medical treatments for the victims of radiation poisoning. Less than 20 nuclear accidents had occurred in the world to that point, and most of those happened 30 years ago. This book documents the following 83 days of treatment until his passing, with detailed descriptions and explanations of the radiation poisoning.

Strange Glow Timothy J. Jorgensen 2017-08-22 More than ever before, radiation is a part of our modern daily

lives. We own radiation-emitting phones, regularly get diagnostic x-rays, such as mammograms, and submit to full-body security scans at airports. We worry and debate about the proliferation of nuclear weapons and the safety of nuclear power plants. But how much do we really know about radiation? And what are its actual dangers? An accessible blend of narrative history and science, *Strange Glow* describes mankind's extraordinary, thorny relationship with radiation, including the hard-won lessons of how radiation helps and harms our health. Timothy Jorgensen explores how our knowledge of and experiences with radiation in the last century can lead us to smarter personal decisions about radiation exposures today. Jorgensen introduces key figures in the story of radiation—from Wilhelm Roentgen, the discoverer of x-rays, and pioneering radioactivity researchers Marie and Pierre Curie, to Thomas Edison and the victims of the recent Fukushima Daiichi nuclear power plant accident. Tracing the most important events in the evolution of radiation, Jorgensen explains exactly what radiation is, how it produces certain health consequences, and how we can protect ourselves from harm. He also considers a range of practical scenarios such as the risks of radon in our basements, radiation levels in the fish we eat, questions about cell-phone use, and radiation's link to cancer. Jorgensen empowers us to make informed choices while offering a clearer understanding of broader societal issues. Investigating radiation's benefits and risks, *Strange Glow* takes a remarkable look at how, for better or worse, radiation has transformed our society.

The Children of Atomic Bomb Survivors National Research Council 1991-02-01 Do persons exposed to radiation suffer genetic effects that threaten their yet-to-be-born children? Researchers are concluding that the genetic risks of radiation are less than previously thought. This finding is explored in this volume about the children of atomic bomb survivors in Hiroshima and Nagasaki--the population that can provide the greatest insight into this critical issue. Assembled here for the first time are papers representing more than 40 years of research. These documents reveal key results related to radiation's effects on pregnancy termination, sex ratio, congenital defects, and early mortality of children. Edited by two of the principal architects of the studies, J. V. Neel and W. J. Schull, the volume also offers an important comparison with studies of the genetic effects of radiation on mice. The wealth of technical details will be immediately useful to geneticists and other specialists. Policymakers will be interested in the overall conclusions and discussion of future studies.

Voices from Chernobyl Светлана Алексиевич 1999 Winner of the Nobel Prize in Literature Winner of the National Book Critics Circle Award A journalist by trade, who now suffers from an immune deficiency developed while researching this book, presents personal accounts of what happened to the people of Belarus after the nuclear reactor accident in 1986, and the fear, anger, and uncertainty that they still live with. The Nobel Prize in Literature 2015 was awarded to Svetlana Alexievich "for her polyphonic writings, a monument to suffering and courage in our time."

Radiation Oncology Physics International Atomic Energy Agency 2005 This publication is aimed at students and

teachers involved in teaching programmes in field of medical radiation physics, and it covers the basic medical physics knowledge required in the form of a syllabus for modern radiation oncology. The information will be useful to those preparing for professional certification exams in radiation oncology, medical physics, dosimetry or radiotherapy technology.

Radioactive Lauren Redniss 2015-08-04 In 1891, 24 year old Marie, née Marya Sklodowska, moved from Warsaw to Paris, where she found work in the laboratory of Pierre Curie, a scientist engaged in research on heat and magnetism. They fell in love. They took their honeymoon on bicycles. They expanded the periodic table, discovering two new elements with startling properties, radium and polonium. They recognized radioactivity as an atomic property, heralding the dawn of a new scientific era. They won the Nobel Prize. Newspapers mythologized the couple's romance, beginning articles on the Curies with "Once upon a time . . ." Then, in 1906, Pierre was killed in a freak accident. Marie continued their work alone. She won a second Nobel Prize in 1911, and fell in love again, this time with the married physicist Paul Langevin. Scandal ensued. Duels were fought. In the century since the Curies began their work, we've struggled with nuclear weapons proliferation, debated the role of radiation in medical treatment, and pondered nuclear energy as a solution to climate change. In *Radioactive*, Lauren Redniss links these contentious questions to a love story in 19th Century Paris. *Radioactive* draws on Redniss's original reporting in Asia, Europe and the United States, her interviews with scientists, engineers, weapons specialists, atomic bomb survivors, and Marie and Pierre Curie's own granddaughter. Whether young or old, scientific novice or expert, no one will fail to be moved by Lauren Redniss's eerie and wondrous evocation of one of history's most intriguing figures.

Guide for Aviation Medical Examiners 1992

The Criticality Accident in Sarov International Atomic Energy Agency 2001 On 17 June 1997 a physicist working as a senior technician at the Nuclear Centre, Sarov, in the Russian Federation, was severely exposed as a result of a criticality accident with an assembly of highly enriched uranium. This is the first report that the IAEA has published on a criticality accident.

The Lampshade Mark Jacobson 2010-09-14 Few growing up in the aftermath of World War II will ever forget the horrifying reports that Nazi concentration camp doctors had removed the skin of prisoners to makes common, everyday lampshades. In *The Lampshade*, bestselling journalist Mark Jacobson tells the story of how he came into possession of one of these awful objects, and of his search to establish the origin, and larger meaning, of what can only be described as an icon of terror. Jacobson's mind-bending historical, moral, and philosophical journey into the recent past and his own soul begins in Hurricane Katrina-ravaged New Orleans. It is only months after the storm, with America's most romantic city still in tatters, when Skip Henderson, an old friend of Jacobson's, purchases an item at a rummage sale: a very strange looking and oddly textured lampshade. When he asks what it's made of, the seller, a man covered with jailhouse tattoos, replies, "That's made from the skin of Jews." The price: \$35. A few days later, Henderson sends the lampshade to Jacobson, saying, "You're the journalist, you find out what it is." The lampshade couldn't possibly be real, could it? But it is. DNA analysis proves it. This revelation sends Jacobson halfway around the world, to Yad Vashem in Jerusalem and to the Buchenwald concentration camp in Germany, where the lampshades were supposedly made on the order of the infamous "Bitch of Buchenwald," Ilse Koch. From the time he grew up in Queens, New York, in the 1950s, Jacobson has heard stories about the human skin lampshade and knew it to be the ultimate symbol of Nazi cruelty. Now he has one of these things in his house with a DNA report to prove it, and almost everything he finds out about it is contradictory, mysterious, shot through with legend and specious information. Through interviews with forensic experts, famous Holocaust scholars (and deniers), Buchenwald survivors and liberators, and New Orleans thieves and cops, Jacobson gradually comes to see the lampshade as a ghostly illuminator of his own existential status as a Jew, and to understand exactly

what that means in the context of human responsibility. One question looms as his search goes on: what to do with the lampshade—this unsettling thing that used to be someone? It is a difficult dilemma to be sure, but far from the last one, since once a lampshade of human skin enters your life, it is very, very hard to forget.

The Radium Girls Kate Moore 2017-04-18 A New York Times, USA Today, Wall Street Journal, and Amazon Charts Bestseller! For fans of *Hidden Figures*, comes the incredible true story of the women heroes who were exposed to radium in factories across the U.S. in the early 20th century, and their brave and groundbreaking battle to strengthen workers' rights, even as the fatal poison claimed their own lives... In the dark years of the First World War, radium makes gleaming headlines across the nation as the fresh face of beauty, and wonder drug of the medical community. From body lotion to tonic water, the popular new element shines bright. Meanwhile, hundreds of girls toil amidst the glowing dust of the radium-dial factories. The glittering chemical covers their bodies from head to toe; they light up the night like industrious fireflies. With such a coveted job, these "shining girls" are the luckiest alive — until they begin to fall mysteriously ill. And, until they begin to come forward. As the women start to speak out on the corruption, the factories that once offered golden opportunities ignore all claims of the gruesome side effects. And as the fatal poison of the radium takes hold, the brave shining girls find themselves embroiled in one of the biggest scandals of America's early 20th century, and in a groundbreaking battle for workers' rights that will echo for centuries to come. A timely story of corporate greed and the brave figures that stood up to fight for their lives, these women and their voices will shine for years to come. Written with a sparkling voice and breakneck pace, *The Radium Girls* fully illuminates the inspiring young women exposed to the "wonder" substance of radium, and their awe-inspiring strength in the face of almost impossible circumstances. Their courage and tenacity led to life-changing regulations, research into nuclear bombing, and ultimately saved hundreds of thousands of lives...

Guide for All-Hazard Emergency Operations Planning Kay C. Goss 1998-05 Meant to aid State & local emergency managers in their efforts to develop & maintain a viable all-hazard emergency operations plan. This guide clarifies the preparedness, response, & short-term recovery planning elements that warrant inclusion in emergency operations plans. It offers the best judgment & recommendations on how to deal with the entire planning process -- from forming a planning team to writing the plan. Specific topics of discussion include: preliminary considerations, the planning process, emergency operations plan format, basic plan content, functional annex content, hazard-unique planning, & linking Federal & State operations.

Report of the Presidential Commission on the Space Shuttle Challenger Accident DIANE Publishing Company 1995-07 Reviews the circumstances surrounding the Challenger accident to establish the probable cause or causes of the accident. Develops recommendations for corrective or other action based upon the Commission's findings and determinations. Color photos, charts and tables.

Global Trends 2030 Office of the Director of National Intelligence Council 2017-03-11 This publication covers global megatrends for the next 20 years and how they will affect the United States. This is the fifth installment in the National Intelligence Council's series aimed at providing a framework for thinking about possible futures and their implications. The report is intended to stimulate strategic thinking about the rapid and vast geopolitical changes characterizing the world today and possible global trajectories during the next 15-20 years by identifying critical trends and potential discontinuities. The authors distinguish between megatrends, those factors that will likely occur under any scenario, and game-changers, critical variables whose trajectories are far less certain. NIC 2012-001. Several innovations are included in *Global Trends 2030*, including: a review of the four previous *Global Trends* reports, input from academic and other experts around the world, coverage of disruptive technologies, and a chapter on the potential trajectories for the US role in the international system and the possible the impact on future international relations. Table of Contents: Introduction 1 Megatrends 6 Individual Empowerment 8 Poverty

Reduction 8 An Expanding Global Middle Class 8 Education and the Gender Gap 10 Role of Communications Technologies 11 Improving Health 11 A MORE CONFLICTED IDEOLOGICAL LANDSCAPE 12 Diffusion of Power 15 THE RISE AND FALL OF COUNTRIES: NOT THE SAME OLD STORY 17 THE LIMITS OF HARD POWER IN THE WORLD OF 2030 18 Demographic Patterns 20 Widespread Aging 20 Shrinking Number of Youthful Countries 22 A New Age of Migration 23 The World as Urban 26 Growing Food, Water, and Energy Nexus 30 Food, Water, and Climate 30 A Brighter Energy Outlook 34 Game-Changers 38 The Crisis-Prone Global Economy 40 The Plight of the West 40 Crunch Time Too for the Emerging Powers 43 A Multipolar Global Economy: Inherently More Fragile? 46 The Governance Gap 48 Governance Starts at Home: Risks and Opportunities 48 INCREASED FOCUS ON EQUALITY AND OPENNESS 53 NEW GOVERNMENTAL FORMS 54 A New Regional Order? 55 Global Multilateral Cooperation 55 The Potential for Increased Conflict 59 INTRASTATE CONFLICT: CONTINUED DECLINE 59 Interstate Conflict: Chances Rising 61 Wider Scope of Regional Instability 70 The Middle East: At a Tipping Point 70 South Asia: Shocks on the Horizon 75 East Asia: Multiple Strategic Futures 76 Europe: Transforming Itself 78 Sub-Saharan Africa: Turning a Corner by 2030? 79 Latin America: More Prosperous but Inherently Fragile 81 The Impact of New Technologies 83 Information Technologies 83 AUTOMATION AND MANUFACTURING TECHNOLOGIES 87 Resource Technologies 90 Health Technologies 95 The Role of the United States 98 Steady US Role 98 Multiple Potential Scenarios for the United States' Global Role 101 Alternative Worlds 107 Stalled Engines 110 FUSION 116 Gini-out-of-the-Bottle 122 Nonstate World 128 Acknowledgements 134 GT2030 Blog References 137 Audience: Appropriate for anyone, from businesses to banks, government agencies to start-ups, the technology sector to the teaching sector, and more. This publication helps anticipate where the world will be: socially, politically, technologically, and culturally over the next few decades. Keywords: Global Trends 2030 Alternative Worlds, global trends 2030, Global Trends series, National Intelligence Council, global trajectories, global megatrends, geopolitics, geopolitical changes

Ottoman Women Builders Lucienne Thys-Senocak 2017-03-02 Examined here is the historical figure and architectural patronage of Hadice Turhan Sultan, the young mother of the Ottoman Sultan Mehmed IV, who for most of the latter half of the seventeenth century shaped the political and cultural agenda of the Ottoman court. Captured in Russia at the age of twelve, she first served the reigning sultan's mother in Istanbul. She gradually rose through the ranks of the Ottoman harem, bore a male child to Sultan Ibrahim, and came to power as a valide sultan, or queen mother, in 1648. It was through her generous patronage of architectural works-including a large mosque, a tomb, a market complex in the city of Istanbul and two fortresses at the entrance to the Dardanelles-that she legitimated her new political authority as a valide and then attempted to support that of her son. Central to this narrative is the question of how architecture was used by an imperial woman of the Ottoman court who, because of customary and religious restrictions, was unable to present her physical self before her subjects' gaze. In lieu of displaying an iconic image of herself, as Queen Elizabeth and Catherine de Medici were able to do, Turhan Sultan expressed her political authority and religious piety through the works of architecture she commissioned. Traditionally historians have portrayed the role of seventeenth-century royal Ottoman women in the politics of the empire as negative and de-stabilizing. But Thys-Senocak, through her examination of these architectural works as concrete expressions of legitimate power and piety, shows the traditional framework to be both sexist and based on an outdated paradigm of decline. Thys-Senocak's research on Hadice Turhan Sultan's two Ottoman fortresses of Seddülbahir and Kumkale improves in a significant way our understanding of early modern fortifications in the eastern Mediterranean region and will spark further research on many of the Ottoman fortifications built in the area. Plans and elevations of the fortresses are published and analysed here for the first time. Based on archival research, including letters written by the queen mother, many of which are published here for the first time, and archaeological fieldwork, her work is also informed by recent theoretical debates in the fields of art history,

cultural history and gender studies.

The Radiological Accident in Goiânia International Atomic Energy Agency 1988 The Government and authorities in Brazil were faced with a tragic accident in Goiânia resulting from the misuse of a strongly radioactive medical teletherapy source not under radiation protection surveillance. The present report is divided into four parts: a chronology of destruction of the source, discovery of the accident and initial response; a description of the human consequences and the dosimetry and treatment of seriously exposed and contaminated persons; an account of the assessment of the environmental contamination and the remedial actions taken; and observations and recommendations. Appendices and annexes give an assessment of the effectiveness of international co-operation in the emergency response, and provide further information on: public communications; radiological survey equipment; guidelines for the discharge of patients; radiological protection; chemical decontamination; and the lessons learned.

Safe Management of Wastes from Health-care Activities A. Prüss 1999

Global Trends 2040 National Intelligence Council 2021-03 "The ongoing COVID-19 pandemic marks the most significant, singular global disruption since World War II, with health, economic, political, and security implications that will ripple for years to come." -Global Trends 2040 (2021) Global Trends 2040-A More Contested World (2021), released by the US National Intelligence Council, is the latest report in its series of reports starting in 1997 about megatrends and the world's future. This report, strongly influenced by the COVID-19 pandemic, paints a bleak picture of the future and describes a contested, fragmented and turbulent world. It specifically discusses the four main trends that will shape tomorrow's world: - Demographics-by 2040, 1.4 billion people will be added mostly in Africa and South Asia. - Economics-increased government debt and concentrated economic power will escalate problems for the poor and middleclass. - Climate-a hotter world will increase water, food, and health insecurity. - Technology-the emergence of new technologies could both solve and cause problems for human life. Students of trends, policymakers, entrepreneurs, academics, journalists and anyone eager for a glimpse into the next decades, will find this report, with colored graphs, essential reading.

Cal/OSHA Pocket Guide for the Construction Industry 2015-01-05 The Cal/OSHA Pocket Guide for the Construction Industry is a handy guide for workers, employers, supervisors, and safety personnel. This latest 2011 edition is a quick field reference that summarizes selected safety standards from the California Code of Regulations. The major subject headings are alphabetized and cross-referenced within the text, and it has a detailed index. Spiral bound, 8.5 x 5.5"

PISA Take the Test Sample Questions from OECD's PISA Assessments OECD 2009-02-02 This book presents all the publicly available questions from the PISA surveys. Some of these questions were used in the PISA 2000, 2003 and 2006 surveys and others were used in developing and trying out the assessment.

Canada Enters the Nuclear Age D.G. Hurst 1997-04-19 Written by sixteen of Canada's pioneering nuclear scientists, the book focuses on Canada's nuclear program at AECL's laboratories at Chalk River, Ontario, and Whiteshell, Manitoba, between the years 1943 and 1985. Topics include the organization and operations of AECL's laboratories, nuclear safety and radiation protection, radioisotopes, basic research, development of the CANDU reactor, and the management of radioactive wastes. As well as providing a valuable historical perspective on Canadian science, Canada Enters the Nuclear Age offers useful guidance for innovative scientific development in the future, a future that will depend on developing and nurturing technically sophisticated industry.

The Vanishing Deep Astrid Scholte 2020-03-03 Bestselling author Astrid Scholte, returns with a thrilling adventure in which the dead can be revived...for a price. Seventeen-year-old Tempe was born into a world of water. When the Great Waves destroyed her planet five hundred years ago, its people had to learn to survive living on the water, but the ruins of the cities below still called. Tempe dives daily, scavenging the ruins of a

bygone era, searching for anything of value to trade for Notes. It isn't food or clothing that she wants to buy, but her dead sister's life. For a price, the research facility on the island of Palindromena will revive the dearly departed for twenty-four hours before returning them to death. It isn't a heartfelt reunion that Tempe is after; she wants answers. Elysea died keeping a terrible secret, one that has ignited an unquenchable fury in Tempe: Her beloved sister was responsible for the death of their parents. Tempe wants to know why. But once revived, Elysea has other plans. She doesn't want to spend her last day in a cold room accounting for a crime she insists she didn't commit. Elysea wants her freedom and one final glimpse at the life that was stolen from her. She persuades Tempe to break her out of the facility, and they embark on a dangerous journey to discover the truth about their parents' death and mend their broken bond. But they're pursued every step of the way by two Palindromena employees desperate to find them before Elysea's time is up--and before the secret behind the revival process and the true cost of restored life is revealed.

The Only Harmless Great Thing Brooke Bolander 2018-01-23 The Only Harmless Great Thing is a heart-wrenching alternative history by Brooke Bolander that imagines an intersection between the Radium Girls and noble, sentient elephants. In the early years of the 20th century, a group of female factory workers in Newark, New Jersey slowly died of radiation poisoning. Around the same time, an Indian elephant was deliberately put to death by electricity in Coney Island. These are the facts. Now these two tragedies are intertwined in a dark alternate history of rage, radioactivity, and injustice crying out to be righted. Prepare yourself for a wrenching journey that crosses eras, chronicling histories of cruelty both grand and petty in search of meaning and justice.

The Plutonium Files Eileen Welsome 2010-10-20 When the vast wartime factories of the Manhattan Project began producing plutonium in quantities never before seen on earth, scientists working on the top-secret bomb-building program grew apprehensive. Fearful that plutonium might cause a cancer epidemic among workers and desperate to learn more about what it could do to the human body, the Manhattan Project's medical doctors embarked upon an experiment in which eighteen unsuspecting patients in hospital wards throughout the country were secretly injected with the cancer-causing substance. Most of these patients would go to their graves without ever knowing what had been done to them. Now, in *The Plutonium Files*, Pulitzer Prize-winning reporter Eileen Welsome reveals for the first time the breadth of the extraordinary fifty-year cover-up surrounding the plutonium injections, as well as the deceitful nature of thousands of other experiments conducted on American citizens in the postwar years. Welsome's remarkable investigation spans the 1930s to the 1990s and draws upon hundreds of newly declassified documents and other primary sources to disclose this shadowy chapter in American history. She gives a voice to such innocents as Helen Hutchison, a young woman who entered a prenatal clinic in Nashville for a routine checkup and was instead given a radioactive "cocktail" to drink; Gordon Shattuck, one of several boys at a state school for the developmentally disabled in Massachusetts who was fed radioactive oatmeal for breakfast; and Maude Jacobs, a Cincinnati woman suffering from cancer and subjected to an experimental radiation treatment designed to help military planners learn how to win a nuclear war. Welsome also tells the stories of the scientists themselves, many of whom learned the ways of secrecy on the Manhattan Project. Among them are Stafford Warren, a grand figure whose bravado masked a cunning intelligence; Joseph Hamilton, who felt he was immune to the dangers of radiation only to suffer later from a fatal leukemia; and physician Louis Hempelmann, one of the most enthusiastic supporters of the plan to inject humans with potentially carcinogenic doses of plutonium. Hidden discussions of fifty years past are reconstructed here, wherein trusted government officials debated the ethical and legal implications of the experiments, demolishing forever the argument that these studies took place in a less enlightened era. Powered by her groundbreaking reportage and singular narrative gifts, Eileen Welsome has created a work of profound humanity as well as major historical significance. From the Hardcover edition.

NATO 1995

The Precautionary Principle Marco Martuzzi 2004 The purpose of this publication is to provide the background rationale and support for WHO's working paper Dealing with uncertainty - how can the precautionary principle help protect the future of our children?, prepared for the Fourth Ministerial Conference on Environment and Health held in Budapest, Hungary, in June 2004. The debate around the precautionary principle has provided many insights into how to improve public health decision-making under conditions of uncertainty. This publication should further support approaches to attaining the concurrent goals of protecting adults, children and future generations and the ecosystems on which we depend and enhancing economic development, sustainability and innovation in science, research and policy. [Ed.]

Health Risks of Radon and Other Internally Deposited Alpha-Emitters National Research Council 1988-02-01 This book describes hazards from radon progeny and other alpha-emitters that humans may inhale or ingest from their environment. In their analysis, the authors summarize in one document clinical and epidemiological evidence, the results of animal studies, research on alpha-particle damage at the cellular level, metabolic pathways for internal alpha-emitters, dosimetry and microdosimetry of radionuclides deposited in specific tissues, and the chemical toxicity of some low-specific-activity alpha-emitters. Techniques for estimating the risks to humans posed by radon and other internally deposited alpha-emitters are offered, along with a discussion of formulas, models, methods, and the level of uncertainty inherent in the risk estimates.

FRA Guide for Preparing Accidents/incidents Reports United States. Federal Railroad Administration. Office of Safety 1992

The Medical Implications of Nuclear War Fred Solomon 1986-01-15 Written by world-renowned scientists, this volume portrays the possible direct and indirect devastation of human health from a nuclear attack. The most comprehensive work yet produced on this subject, *The Medical Implications of Nuclear War* includes an overview of the potential environmental and physical effects of nuclear bombardment, describes the problems of choosing who among the injured would get the scarce medical care available, addresses the nuclear arms race from a psychosocial perspective, and reviews the medical needs--in contrast to the medical resources likely to be available--after a nuclear attack. "It should serve as the definitive statement on the consequences of nuclear war."--Arms Control Today

Health Effects of Exposure to Low Levels of Ionizing Radiation National Research Council 1990-02-01 This book reevaluates the health risks of ionizing radiation in light of data that have become available since the 1980 report on this subject was published. The data include new, much more reliable dose estimates for the A-bomb survivors, the results of an additional 14 years of follow-up of the survivors for cancer mortality, recent results of follow-up studies of persons irradiated for medical purposes, and results of relevant experiments with laboratory animals and cultured cells. It analyzes the data in terms of risk estimates for specific organs in relation to dose and time after exposure, and compares radiation effects between Japanese and Western populations.

A Slow Death Maho Harada 2008 Japan's worst nuclear radiation accident took place at a uranium reprocessing facility in Tokaimura, northeast of Tokyo, on 30 September 1999. The direct cause of the accident was cited as the depositing of a uranyl nitrate solution--containing about 16.6 kg of uranium, which exceeded the critical mass--into a precipitation tank. Three workers were exposed to extreme doses of radiation. Hiroshi Ouchi, one of these workers, was transferred to the University of Tokyo Hospital Emergency Room, three days after the accident. Dr. Maekawa and his staff initially thought that Ouchi looked relatively well for a person exposed to such radiation levels. He could talk, and only his right hand was a little swollen with redness. However, his condition gradually weakened as the radioactivity broke down the chromosomes in his cells. The doctors were at a loss as to what to do. There were very few precedents and proven medical treatments for the victims of radiation poisoning. Less than 20 nuclear accidents had occurred in the world to that point, and most of those happened 30 years ago. This book

documents the following 83 days of treatment until his passing, with detailed descriptions and explanations of the radiation poisoning.

Fratelli Tutti Pope Francis 2020-11-05

Tales from the Other Side R. S. Cobb 2017-05-02 Tales from the Other Side - The T♦reta Embarking on Journey to find materials that can save their Compound, Colton must lead a team into the unknown regions of mountainous terrain known as the Rock. Once inside, they encounter something that they were not prepared to face.

Hiroshima Diary Michihiko Hachiya, M.D. 2011-12-01 The late Dr. Michihiko Hachiya was director of the Hiroshima Communications Hospital when the world's first atomic bomb was dropped on the city. Though his responsibilities in the appalling chaos of a devastated city were awesome, he found time to record the story daily, with compassion and tenderness. His compelling diary was originally published by the UNC Press in 1955, with the help of Dr. Warner Wells of the University of North Carolina at Chapel Hill, who was a surgical consultant to the Atomic Bomb Casualty Commission and who became a friend of Dr. Hachiya. In a new foreword, John Dower reflects on the enduring importance of the diary fifty years after the bombing.

The Radiological Accident in Soreq Mercaz le-mehkar gar'ini, Naħal Šorek (Israel) 1993 On 21 June 1990 a fatal radiological accident occurred at an industrial irradiation facility at Soreq, Israel. An operator entered the irradiation room by circumventing safety systems and was acutely exposed, with an estimated whole body dose of 10-20 Gy. The accident, like earlier accidents at similar irradiators, was the consequence of the contravention of operating procedures. An IAEA review team investigated the causes of the accident. This report presents its findings and recommendations and describes the clinical management of the patient, particularly of the haematological phase. The medical treatment included the use of emerging therapies with haematopoietic growth factor drugs which may rescue the overexposed patient, albeit in this case only temporarily. The report is intended for regulatory authorities responsible for the regulation and inspection of irradiators, operating organizations and physicians who may need to treat overexposed patients.

Toxicological Profile for Polycyclic Aromatic Hydrocarbons 1995

On the Beach Nevil Shute 2010-02-09 "The most shocking fiction I have read in years. What is shocking about it is both the idea and the sheer imaginative brilliance with which Mr. Shute brings it off." THE SAN FRANCISCO CHRONICLE They are the last generation, the innocent victims of an accidental war, living out their last days, making do with what they have, hoping for a miracle. As the deadly rain moves ever closer, the world as we

know it winds toward an inevitable end...

Ghosts of the Tsunami Richard Lloyd Parry 2017-10-24 Named one of the best books of 2017 by The Guardian, NPR, GQ, The Economist, Bookforum, Amazon, and Lit Hub The definitive account of what happened, why, and above all how it felt, when catastrophe hit Japan—by the Japan correspondent of The Times (London) and author of *People Who Eat Darkness* On March 11, 2011, a powerful earthquake sent a 120-foot-high tsunami smashing into the coast of northeast Japan. By the time the sea retreated, more than eighteen thousand people had been crushed, burned to death, or drowned. It was Japan's greatest single loss of life since the atomic bombing of Nagasaki. It set off a national crisis and the meltdown of a nuclear power plant. And even after the immediate emergency had abated, the trauma of the disaster continued to express itself in bizarre and mysterious ways. Richard Lloyd Parry, an award-winning foreign correspondent, lived through the earthquake in Tokyo and spent six years reporting from the disaster zone. There he encountered stories of ghosts and hauntings, and met a priest who exorcised the spirits of the dead. And he found himself drawn back again and again to a village that had suffered the greatest loss of all, a community tormented by unbearable mysteries of its own. What really happened to the local children as they waited in the schoolyard in the moments before the tsunami? Why did their teachers not evacuate them to safety? And why was the unbearable truth being so stubbornly covered up? *Ghosts of the Tsunami* is a soon-to-be classic intimate account of an epic tragedy, told through the accounts of those who lived through it. It tells the story of how a nation faced a catastrophe, and the struggle to find consolation in the ruins.

Radiation and Health Thormod Henriksen 2002-09-05 Radiation and the effects of radioactivity have been known for more than 100 years. International research spanning this period has yielded a great deal of information about radiation and its biological effects and this activity has resulted in the discovery of many applications in medicine and industry including cancer therapy, medical diagnostics

Radiological Accident in Lia, Georgia International Atomic Energy Agency 2014-12-23 Under the Convention on Assistance in Case of a Nuclear Accident or Radiological Emergency, the Georgian authorities requested assistance from the IAEA in relation to the 2001 radiological accident in Lia. This assistance related to advice on the dose assessment, source recovery and medical management of those involved in the accident. This report provides the detailed information on the accident and presents the findings and conclusions and lessons learned from the treatment of the overexposed victims. The aim is to help to avoid similar occurrences by improving safety, and to minimize the consequences of any such events that do occur.