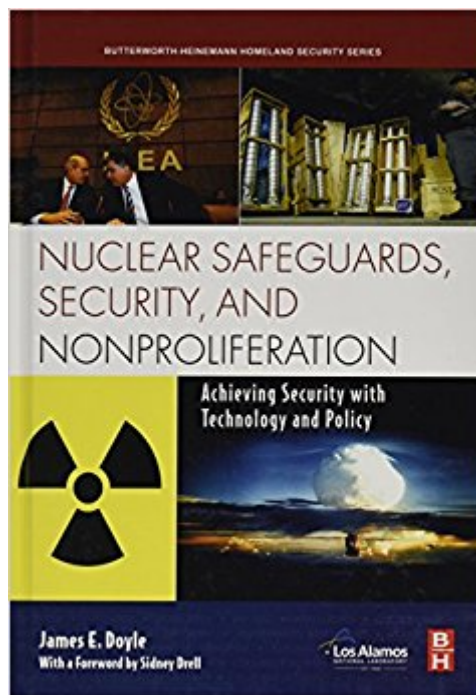


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Nuclear Safeguards, Security And Nonproliferation: Achieving Security With Technology And Policy (Butterworth-Heinemann Homeland Security)



Synopsis

With an increase of global security concerns over potential terrorist acts, the threat of WMDs, and increasing political issues with nations seeking nuclear capability, the need to track, detect, and safeguard nuclear material globally has never been greater. Nuclear Safeguards, Security and Nonproliferation is a comprehensive reference that covers cutting-edge technologies used to trace, track, and safeguard nuclear material. It is a contributed volume with sections contributed by scientists from leading institutions such as Los Alamos National Labs, Sandia National Labs, Pacific Northwest Nuclear Labs, and Texas A&M University, and the Monterey Institute of International Studies. The book is divided into 3 sections and includes 30 chapters on such topics as - the security of nuclear facilities and material, the illicit trafficking of nuclear materials, improvised nuclear devices, how to prevent nuclear terrorism. International case studies of security at nuclear facilities and illegal nuclear trade activities provide specific examples of the complex issues surrounding the technology and policy for nuclear material protection, control and accountability. Specific cases include analysis of the timely issues in the nuclear programs of countries such as North Korea, Iran, and Kazakhstan among others. Nuclear Security is a must-have volume for the dozens of private and public organizations involved in driving Homeland Security, domestic, and international policy issues relating to nuclear material security, non-proliferation, and nuclear transparency. Written by some of the world's top scientists including members of the Nuclear Division of Los Alamos National Labs (U.S.) A timely discussion of current international nuclear security issues includes case studies on Iraq, Iran and North Korea. Book takes a global perspective on nuclear security and non-proliferation detailing the little-known real-world technologies used to secure, detect and track nuclear material.

Book Information

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Customer Reviews

"A welcome addition to the literature on one of the greatest challenges of our time that looks at the conceptual and practical aspects of addressing those challenges from the perspective of both analysts and practitioners."--Lawrence Scheinman, Distinguished Professor James Martin Center for Nonproliferation Studies, Monterey Institute of International Studies and Assistant Director of The U.S. Arms Control and Disarmament Agency during the Clinton Administration

This is a quite good book in its theme because it describes many perceptions of Nuclear Safeguards, Security and Nonproliferations. However it could become better if it includes more scientific nuclear physics and mathematics information and it also consider the very Critical theme that mentioned in the scientific article with the title "Theoretically and under very special applied conditions a nuclear fission reactor may explode as nuclear bomb" by Joseph-Christos Kondylakis, which was published in the scientific proceedings of the Hellenic Nuclear Physics Society (HNPS) in its 19th scientific symposium held at the Aristotle University of Thessaloniki, Greece, on 28-29 May 2010, together with the evidence that one microgram! of Plutonium if it is inhaled can be Deadly (cancer) and if a nuclear power reactor of 1000 MWe explode as a nuclear bomb then about two Tons! of Plutonium will go to tropospheric and global stratospheric atmospheric circulation. The above mentioned proceedings exist also in the Internet site: <http://nuclpart.phys.uoa.gr/HNPS/Files/ANP2010.pdf>

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