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Transport accidents in which gamma shielding is lost; 5.6 Uncertainty in transport risk assessment; 5.7 Summary; References; 6 - Responding to emergencies associated with the transport of radioactive material; 6.1 Introduction - emergency response: a necessary contribution to transport safety 6.2 Some significant events in radioactive material (RAM) transport - lessons drawn 6.3 Existing international requirements and recommendations - future trends; 6.4 Roles and responsibilities for governmental and private, national and local organizations; 6.5 Specific instrumentation, equipment and assessment tools needed for response according to transport modes; 6.6 Other specific issues for transport emergency response organization: international issues; 6.7 Conclusions; 6.8 Further information and references; References; Part 2 - Package design and performance for transport 7 - Structural performance of packages for radioactive materials 7.1 Introduction; 7.2 Performance requirements; 7.3 From requirements to package layout; 7.4 Demonstration of package performance; 7.5 Conclusions; References; 8 - Thermal performance of transportation packages for radioactive materials; 8.1 Introduction; 8.2 Basics of heat transfer; 8.3 Regulatory aspects; 8.4 Heat loads; 8.5 Thermal design features; 8.6 Materials; 8.7 Thermal safety evaluations of the package; 8.8 Testing and analysis; 8.9 Summary and trends; References 9 - Radiation protection by shielding in packages for radioactive materials

Sommario/riassunto

Safe and Secure Transport and Storage of Radioactive Materials reviews best practice and emerging techniques in this area. The transport of radioactive materials is an essential operation in the nuclear industry, without which the generation of nuclear power would not be possible. Radioactive materials also often need to be stored pending use, treatment, or disposal. Given the nature of radioactive materials, it is paramount that transport and storage methods are both safe and secure. A vital guide for managers and general managers in the nuclear power and transport industries, this book co
