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Sommario/riassunto	This publication by the International Atomic Energy Agency (IAEA) examines the impact of fuel density on the performance and economy of research reactors. It provides detailed insights into how higher density uranium fuel, such as U-Mo, affects reactor performance compared to traditional fuels like U ₃ Si ₂ . The book is part of the IAEA Nuclear Energy Series, which aims to foster the exchange of scientific and technical information on the peaceful uses of atomic energy. It is intended for professionals and researchers in the field of nuclear energy, offering guidance on the technological, policy, and management aspects of nuclear technology. The publication also emphasizes the importance of adhering to IAEA safety standards to ensure nuclear safety and protect against ionizing radiation.