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Sommario/riassunto	Seventeen peer-reviewed papers focus on the latest research on the effects of radiation on nuclear materials. These papers focus on: Light Water Reactor Sustainability Issues and Programs that address the multiple challenges of extended reactor life, including detailed coverage of irradiation embrittlement of reactor pressure vessel steels. Synergistic Effects of Gas Atoms (i.e. helium and hydrogen) and Displacement Damage, with an emphasis on the unprecedented challenge to structural and plasma-facing materials in nuclear fusion reactors.