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Sommario/riassunto	This publication by the International Atomic Energy Agency (IAEA) explores the integration of nuclear energy with renewable energy sources, focusing on the development and application of hybrid energy systems. It provides a detailed overview of the technical principles behind these systems, aimed at advancing the peaceful use of nuclear energy to support sustainable development and innovation. The book highlights potential synergies between nuclear and renewable energy, offering practical examples and experiences in the field. It is intended for professionals and policymakers involved in nuclear energy, energy systems, and environmental sustainability. The IAEA Nuclear Energy Series serves as a comprehensive guide to nuclear technologies, fostering the exchange of scientific and technical information globally.