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Sommario/riassunto	This publication by the International Atomic Energy Agency (IAEA) explores the field of muon imaging, an innovative technique utilizing cosmic rays for non-invasive imaging applications. Muon imaging offers an alternative to traditional radiography methods, such as X-ray and neutron imaging, by using naturally occurring muons that penetrate deep into structures without requiring artificial radiation sources. The book covers various muon imaging methods, including muography and muon scattering tomography, and details their applications in civil engineering, industrial maintenance, volcanology, and nuclear security. It aims to inform scientists, engineers, and policymakers about the current status and emerging applications of muon imaging, highlighting its potential to improve safety and efficiency in various fields.