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Nota di contenuto	Copyright; Preface; Contents; 1 - Introduction; 2 - Status of the Field; 3 - Gamma Ray Production and Absorption Mechanisms; 4 - Gamma Rays and Origin of Galactic Cosmic Rays; 5 - Gamma Ray Visibility of Supernova Remnants; 6 - Pulsars, Pulsar Winds, Plerions; 7 - Gamma Rays Expected from Microquasars; 8 - Large Scale Jets of Radio Galaxies and Quasars; 9 - Nonthermal Phenomena in Clusters of Galaxies; 10 - TeV Blazars and Cosmic Background Radiation; 11 - High Energy Gamma Rays - Carriers of Unique Cosmological Information; Appendix A - Spherically symmetric diffusion from a single source Appendix B - Evolution of relativistic electrons in an expanding magnetised mediumBibliography; Index
Sommario/riassunto	Gamma ray astronomy, the branch of high energy astrophysics that studies the sky in energetic γ -ray photons, is destined to play a crucial role in the exploration of nonthermal phenomena in the Universe in their most extreme and violent forms. The great potential of this discipline offers impressive coverage of many "hot topics" of modern astrophysics and cosmology, such as the origin of galactic and

extragalactic cosmic rays, particle acceleration and radiation processes under extreme astrophysical conditions, and the search for dark matter.
