

1. Record Nr.	UNINA9910155328603321
Autore	Simnett George M
Titolo	Energetic Particles in the Heliosphere [[electronic resource] /] / by George M. Simnett
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	9783319434957
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (IX, 242 p. 190 illus., 83 illus. in color.)
Collana	Astrophysics and Space Science Library, , 0067-0057 ; ; 438
Disciplina	523.72
Soggetti	Space sciences Astrophysics Observations, Astronomical Astronomy—Observations Nuclear physics Space Sciences (including Extraterrestrial Physics, Space Exploration and Astronautics) Astrophysics and Astroparticles Astronomy, Observations and Techniques Particle and Nuclear Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Introduction -- Instrumentation -- Energetic Particle Acceleration -- Solar Electrons as a Probe of the Inner Heliosphere -- Studies of Energetic Ions in the Inner Heliosphere -- Corotating Interaction Regions -- Studies onf the High Latitude Heliosphere -- The Anomalous Cosmic Ray -- Studies of the Distant Heliosphere beyond Jupiter -- Energetic Particles From Planetary Magnetospheres -- What about the Future? -- .
Sommario/riassunto	This monograph traces the development of our understanding of how and where energetic particles are accelerated in the heliosphere and how they may reach the Earth. Detailed data sets are presented which address these topics. The bulk of the observations are from spacecraft in or near the ecliptic plane. It is timely to present this subject now that Voyager-1 has entered the true interstellar medium. Since it seems

unlikely that there will be a follow-on to the Voyager programme any time soon, the data we already have regarding the outer heliosphere are not going to be enhanced for at least 40 years.

---