

1. Record Nr.	UNINA9910156164203321
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Titolo	Plasmas and energetic processes in the geomagnetosphere . Volume II Plasmas/magnetic and current sheets, reconnections, particle acceleration, and substorms // Lev I. Dorman
Pubbl/distr/stampa	Hauppauge, New York : , : Nova Science Publisher's, Incorporated, , [2017] ©2017
ISBN	1-5361-0144-3
Descrizione fisica	1 online resource (563 pages) : illustrations (some color)
Collana	Physics Research and Technology
Disciplina	538/.766
Soggetti	Magnetosphere Geomagnetism Space plasmas Particle accelerators Cosmic rays Magnetic storms Solar wind
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Magnetospheric sheets: main properties, structure, expansion, and particle transport -- Turbulence and fluctuations, instabilities, storm time variations, fast flows, temperature anisotropies, and magnetic field structure in magnetospheric sheets -- Magnetospheric sheets: bifurcation and flapping, pressure gradients, influence of solar wind and IMF conditions, ULF, EUV, auroral arc waves, dipolarization and antipolarization fronts, parallel electric fields, plasmoids and jets -- Main properties, onset and expansion phases of substorms -- Substorms: reconnections, particle acceleration, and statistical studies -- Modeling and simulation of magnetospheric substorms and related phenomena -- Substorms energetics, relation with magnetic storms, pulsations, turbulence, plasma bubbles, substorm index, and jets.

