Record Nr. UNINA9910143148503321 Autore Cargill P (Peter) Titolo Turbulence in space plasmas / / edited by Peter Cargill, Loukas Vlahos Berlin; ; Heidelberg, : Springer-Verlag, 2009 Pubbl/distr/stampa **ISBN** 9786613562760 9781280384844 1280384840 9783642002106 3642002102 Edizione [1st ed. 2009.] Descrizione fisica 1 online resource (XI, 325 p. 204 illus., 29 illus. in color.) Collana Lecture Notes in Physics, , 0075-8450 ; ; 778 Altri autori (Persone) VlahosLoukas Disciplina 523.01 Soggetti Space plasmas Plasma turbulence Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Bibliographic Level Mode of Issuance: Monograph Nota di bibliografia Includes bibliographical references. Nota di contenuto Waves and Instabilities in Space Plasmas -- Solar MHD: An Introduction -- An Introduction to Fluid and MHD Turbulence for Astrophysical Flows: Theory, Observational and Numerical Data, and Modeling -- The Solar Atmosphere -- The Solar Flare: A Strongly Turbulent Particle Accelerator -- Diagnostics of the Solar Wind Plasma -- Physical Processes in the Solar Wind -- Physics of Stellar Coronae. Sommario/riassunto Over the years, many leading European graduate schools in the field of astrophysical and space plasmas have operated within the framework of the research network, "Theory, Observations, and Simulations in Turbulence in Space Plasmas." This text is a set of lectures and tutorial reviews culled from the relevant work of all those schools. It emphasizes applications on solar coronae, solar flares, and the solar wind. In bridging the gap between standard textbook material and state-of-the-art research, this text offers a broad flavor to postgraduate and postdoctoral students just coming to the field. And

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