



Particle Acceleration in Cosmic Plasmas (Space Sciences Series of ISSI)

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The review articles collected in this volume present a critical assessment of particle acceleration mechanisms and observations from suprathermal particles in the magnetosphere and heliosphere to high-energy cosmic rays, thus covering a range of energies over seventeen orders of magnitude, from 10^3 eV to 10^{20} eV. The main themes are observations of accelerated populations from the magnetosphere to extragalactic scales and assessments of the physical processes underlying particle acceleration in different environments (magnetospheres, the solar atmosphere, the heliosphere, supernova remnants, pulsar wind nebulae and relativistic outflows). Several contributions review the status of shock acceleration in different environments and also the role of turbulence in particle acceleration. Observational results are compared with modelling in different parameter regimes. The book concludes with contributions on the status of particle acceleration research and its future perspectives.

This volume is aimed at graduate students and researchers active in astrophysics and space science.

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