

CONTENTS

Editors	v
Reviewers	vii
ULF Waves: Exploring the Earth's Magnetosphere <i>B. J. Fraser</i>	1
New Sunrise of Solar Physics Galvanized by the <i>Hinode</i> Mission <i>Tetsuya Watanabe and Hinode Science Team</i>	33
The Role of Reconnection in the CME/Flare Process <i>B. Vršnak</i>	43
Small-Scale Interplanetary Magnetic Flux Ropes and Micro-CMEs <i>D. J. Wu</i>	59
Reconnection in Flares and CMEs <i>G. Poletto</i>	67
Thickness and Electrical Resistivity of the Current Sheets in Solar Eruptions <i>Jun Lin</i>	83
Dynamics of Beam–Plasma Instability and Langmuir Wave Decay in Two-Dimensions <i>L. F. Ziebell, R. Gaelzer and P. H. Yoon</i>	95

Superthermal Electron Distributions in the Solar Wind Environment	111
<i>R. Gaelzer, P. H. Yoon, L. F. Ziebell and A. F. Viñas</i>	
Solar Radio Burst Fine Structures in 1–7.6 GHz Ranges	129
<i>Yihua Yan</i>	
Start Frequencies and Onset Positions of Type II Radio Bursts in Solar Eruptions	141
<i>Jun Lin</i>	
Radio Bursts in dm–cm Wavelength Range During Flare/CME Events	151
<i>Yihua Yan</i>	
Coronal Mass Ejection Reconstructions from Interplanetary Scintillation Data Using a Kinematic Model: A Brief Review	161
<i>M. M. Bisi, B. V. Jackson, P. P. Hick, A. Buffington and J. M. Clover</i>	
Spectrum of Density Fluctuations in the Solar Wind	183
<i>V. Krishan</i>	
Electric and Magnetic Field Variations at Low and Equatorial Latitudes During SC, DP2, and Pi2 Events	197
<i>K. Yumoto, A. Ikeda, M. Shinohara, T. Uozumi, K. Nozaki, S. Watari, K. Kitamura, V. V. Bychkov and M. Shevtsov</i>	
Nontypical Pc5 Pulsations in the October 2003 Superstorm Recovery Phase	213
<i>Natalia Kleimenova and Olga Kozyreva</i>	

Polarization Properties of the Ultra-Low Frequency Waves in Non-Axisymmetric Background Magnetic Fields	225
<i>K. Kabin, R. Rankin, I. R. Mann, A. W. Degeling and S. R. Elkington</i>	
S–M–I Coupling During the Super Storm on 20–21 November 2003	237
<i>T. Nagatsuma, K. T. Asai, R. Kataoka, T. Hori and Y. Miyoshi</i>	
Low-Latitude E-Region Quasi-Periodic Echoes Studied Using Long-Term Radar Observations Over Gadanki	245
<i>N. Venkateswara Rao, A. K. Patra and S. Vijaya Bhaskara Rao</i>	
Mirror Modes Observed with Cluster in the Earth’s Magnetosheath: Statistical Study and IMF/Solar Wind Dependence	263
<i>V. Génot, E. Budnik, C. Jacquy, I. Dandouras and E. Lucek</i>	
¹⁰Be Concentrations in Snow at Law Dome, Antarctica Following the 29 October 2003 and 20 January 2005 Solar Cosmic Ray Events	285
<i>J. B. Pedro, A. M. Smith, M. L. Duldig, A. R. Klekociuk, K. J. Simon, M. A. J. Curran, T. D. van Ommen, D. A. Fink, V. I. Morgan and B. K. Galton-Fenzi</i>	
Atmospheric Chemistry Effects of the 20 January 2005 Solar Proton Event	305
<i>A. R. Klekociuk, D. J. Bombardieri, M. L. Duldig and K. J. Michael</i>	