

High-Latitude Space Plasma Physics



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Reviews

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(Blanca Davis)

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Book Condition: New. Publisher/Verlag: Springer, Berlin | Nobel symposium No. 54 on High Latitude Magnetospheric/Ionospheric Plasma Physics was organized in Kiruna, Sweden on March 22-25, 1982 by Kiruna Geophysical Institute and EISCAT Scientific Association. Some 50 leading experts from Western Europe, America and USSR were invited to the Symposium. One main purpose of the Symposium was to prepare for the intense European research effort in space plasma physics in the middle 1980's, in which the EISCAT facilities and the Swedish satellite Viking are two of the more important constituents. The programme of the symposium was tied to the physics of those regions of near space where EISCAT and Viking are expected to provide important new observational results. This is rather well covered by the title of these proceedings: High Latitude Space Plasma Physics. The first two sessions dealt with the physics of the high latitude ionosphere and the third one with how this part of near space is affected by the properties of the solar wind and the interplanetary magnetic field. The remaining three sessions covered fairly extensively the high latitude magnetospheric physics at altitudes of 1-2 earth radii, which is the main scientific object of the Viking project. The Programme Committee of the Kiruna Nobel Symposium was composed of the following European scientists: P. Bauer (Issy-les-Moulineaux), R. Bostrom (Uppsala), C. G. Fälthammar (Stockholm), T. Hagfors (Kiruna, Cochairman), O. Holt (Tromsø), B. Hultqvist (Kiruna, Cochairman), H. Kohl (Lindau), J. Oksman (Oulu), H. Rishbeth (Chilton), and L. Stenflo (Umeå). | The EISCAT Facility.- The Viking Satellite.- Physics of the High Latitude Ionosphere.- The Role of the Auroral Ionosphere in Magnetospheric Substorms.- Characteristics of the Polar Cap at Ionospheric Levels and Present Understanding of the Physical Processes that give Rise to these Characteristics.- The Low Altitude...



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