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PREFACE

This book contains the lectures presented at the Summer Advanced Study Institute, 'Earth's Particles and Fields' which was held at the University of Sheffield, England, during the period August 13–24, 1973. One hundred thirty nine persons from sixteen different countries attended the Institute.

The authors and publisher have made a special effort for rapid publication of an up-to-date status of the particles, fields, and processes in the Earth's magnetosphere, which is an ever changing area. Special thanks are due to the lecturers for their diligent preparation and excellent presentations. The individual lectures and the published papers were deliberately limited; the authors' cooperation in conforming to these specifications is greatly appreciated. The contents of the book are organized by subject area rather than in the order in which papers were presented during the Institute. Many thanks are due to Drs Rolf Boström, J. Ronald Burrows, Robert W. Fredricks, Thomas R. Kaiser, Bernt N. Maehlum, Christopher T. Russell, and Martin Walt who served as session chairmen during the Institute and contributed greatly to its success by skillfully directing the discussion period in a stimulating manner after each lecture.

Many persons contributed to the success of the Institute. Drs J. Ronald Burrows, James Dungey, Carl-Gunne Fälthammar, Roger E. Gendrin, Thomas R. Kaiser, Reimar Lüst, Bernt N. Maehlum, Atsuhiro Nishida, J. Ortner, Erwin R. Schmerling, and Martin Walt were especially helpful in preparing the technical program. Dr Thomas R. Kaiser, University of Sheffield, played a most important role in helping to arrange the facilities in Sheffield and in providing visual aids, recording equipment, office support, and projectionists. The assistant editor, Mrs Diana R. McCormac, checked the manuscripts and proofs, and worked hard to achieve a uniform style in this book.

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Palo Alto,
November 1973

BILLY M. MCCORMAC