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Preface

The study of electromagnetic induction in the Earth and Moon offers the unique opportunity of determining the electrical conductivity from the upper surface to several hundreds of kilometers in depth. The relationship between the electrical conductivity and the state and composition of the relevant material places these methods in an outstanding position within the Earth sciences. However, many old problems and more new techniques still have to be solved and developed, and the community concerned with this work is growing from year to year. A few most excellent, international conferences are devoted each year to these methods, with an increasing number of contributions. The present issue of the *Journal of Geophysics* was initiated by a symposium of IAGA Working Group I-3, "Electromagnetic induction in the Earth and Moon" on August 23, 1983, during the IUGG General assembly in Hamburg. More than 40 contributions were announced for this one-

day-only session. It was decided to present all papers in a poster session (which actually became a vivid and well-attended event during this gigantic assembly). This large number and the high standard of most contributions initiated the idea of publishing as many papers as possible in one special issue of an internationally known journal. There exists no special topic for this "electromagnetic issue," and the papers represent an overview about the present state and standard of the art. All papers underwent the normal refereeing procedure used in this journal. Together with the editor of the journal, I would like to thank all the referees for their most valuable contributions to this issue. May this issue be of lasting value to the Electromagnetic-Induction Community.

Volker Haak