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# **World Ionosphere/ Thermosphere Study**

**WITS HANDBOOK**

**Volume 2**

**Edited by**

**C. H. Liu**

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**C. H. Liu**

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## FOREWORD

The current resurgence of interest in the study of the ionosphere-thermosphere system is, to a significant degree, due to the development and improvement of experimental and analysis techniques. These include space-borne as well as ground-based systems, carrying out either *in situ* or remote sensing measurements, actively or passively, using a significant fraction of the electromagnetic spectrum. Innovations are found not only in hardware, but also in methods of analysis and simulations. During the period of WITS, it was recognized that a Handbook dedicated to state-of-the-art technical information would be most useful to help workers in the field keep abreast of new developments. To this end, recognized experts have been invited to contribute chapters on their specialities, covering such aspects as instrumentation, technical principles, data analysis, and capabilities. Due to space limitations it has not been possible to cover all topics exhaustively. It is hoped that future volumes dedicated to techniques will be published.

I would like to thank all the contributors for their tremendous effort and cooperation. Special thanks are also due to Mrs. Belva Edwards for her editorial help.

C. H. Liu

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