

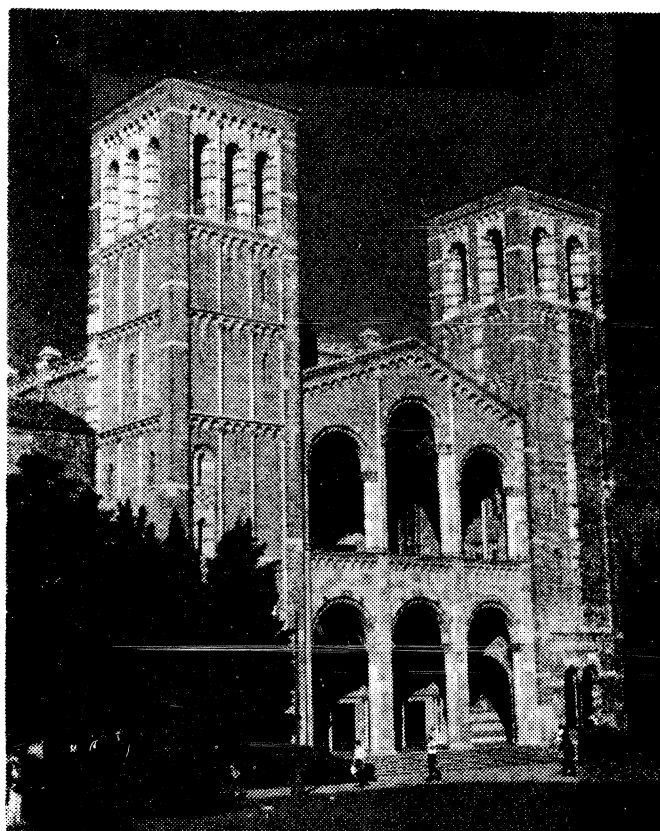
NASA



FOURTH INTERNATIONAL SYMPOSIUM ON
SPACE TERAHERTZ TECHNOLOGY



SYMPOSIUM PROCEEDINGS



Royce Hall, UCLA

March 30-April 1, 1993

UCLA

Los Angeles, California

Sponsored by:

NASA Office of Advanced Concepts and Technology (OACT), University Space Engineering Research Centers Program, with cooperative sponsorship by the Microwave Theory and Techniques Society of IEEE.

Organized Jointly by:

The University of Michigan's NASA Center for Space Terahertz Technology and UCLA's Center for High Frequency Electronics.

Proceedings of the
FOURTH INTERNATIONAL SYMPOSIUM ON
SPACE TERAHERTZ TECHNOLOGY

March 30-April 1, 1993

UCLA
Los Angeles, California

Organizing Committee

- Symposium Co-chairs: Fawwaz T. Ulaby, University of Michigan
Tatsuo Itoh, UCLA
- Technical Co-chairs: Gabriel M. Rebeiz, University of Michigan
Harold Fetterman, UCLA
- Local Arrangements: Dorothy Treece, UCLA
David Binder, UCLA
- Symposium Proceedings: Brenda Hadley, University of Michigan

Preface

The Fourth International Symposium on Space Terahertz Technology was held at UCLA in Los Angeles, California, on March 30-April 1, 1993. The Symposium, which was attended by approximately 150 scientists and engineers from the U.S., Europe, and Japan, featured papers relevant to the generation, detection, and use of the terahertz spectral region for space astronomy and remote sensing of the Earth's upper atmosphere. The program included thirteen sessions covering a wide variety of topics including solid-state oscillators, power-combining techniques, mixers, harmonic multipliers, antennas and antenna arrays, submillimeter receivers, and measurement techniques.

The Symposium was sponsored by the University Space Engineering Research Centers Program of NASA's Office of Advanced Concepts and Technology (OACT), and organized jointly by the University of Michigan's NASA Center for Space Terahertz Technology and UCLA's Center for High Frequency Electronics. The Microwave Theory and Techniques Society of IEEE served as a cooperative sponsor of the Symposium, as well as a medium for publication of some of the papers that were presented at the Symposium in the form of a mini-special issue (April 1994) of the *IEEE-MTT Transactions*.

The Fifth International Symposium on Space Terahertz Technology will be held at the University of Michigan in Ann Arbor, Michigan on May 10-12, 1994.

Fawwaz T. Ulaby
Tatsuo Itoh

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