

# ACOUSTICAL HOLOGRAPHY

Volume 3

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# ACOUSTICAL HOLOGRAPHY

## Volume 3

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*Proceedings of the Third International Symposium on  
Acoustical Holography, held at the Newporter Inn,  
Newport Beach, California, July 29-31, 1970*

Edited by

**A. F. Metherell**

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## PREFACE

This volume presents the proceedings of the Third International Symposium on Acoustical Holography, which was held at the Newporter Inn, Newport Beach, on 29-31 July 1970. The symposium was sponsored by the Douglas Advanced Research Laboratories, McDonnell Douglas Corporation, and the Acoustical Society of America.

Twenty papers were presented and these each appear as a chapter in this volume. The chapters are grouped into five sections. The sections are I Medical and Biological, II Bragg Imaging, III Nondestructive Testing, IV Underwater and Long Wavelength, and V Theory and Methods. The reader is cautioned only to use the sectional titles as a rough guide. For instance, the reader interested in new methods should not just read section V since he will find a new liquid surface relief method described in chapter 10 in section III.

In an effort to reduce the time delay between the meeting and the publication date, the publishers have produced this volume using the shoot-from-manuscript method instead of the more time consuming typesetting method that was used on the previous volumes. As a result there may be differences in notation and definitions used for one chapter to another. However this should not cause confusion since all symbols and definitions are stated in each chapter.

The editor wishes to thank the session chairmen, Dr. Vincent Salmon, Stanford Research Institute; Dr. Isadore Rudnick, University of California at Los Angeles; Dr. Lewis Larmore, McDonnell Douglas Corporation; Dr. Raymond H. McFee, McDonnell Douglas Corporation; and Dr. Victor P. Garwood, University of Southern California, for their contributions to the smooth running of the symposium. The organizing of the symposium was accomplished with the cooperation of the authors and many of the staff members of the Douglas Advanced Research Laboratories.

The program committee consisted of the Editor; Dr. John J. Dreher, McDonnell Douglas Corporation; Dr. O. K. Mawardi, Acoustical Society of America, Case Western Reserve University; and Dr. W. Cook, Acoustical Society of America, University of Houston. The editor is sincerely grateful to all of these individuals and to the McDonnell Douglas Corporation and the Acoustical Society of America for sponsoring this symposium.

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