

Multichannel Image Detectors

Volume 2

ACS SYMPOSIUM SERIES 236

Multichannel Image Detectors

Volume 2

Yair Talmi, EDITOR
Princeton Instruments, Inc.

Based on a symposium cosponsored by
the Division of Analytical Chemistry
and the Division of Physical Chemistry
at the 184th Meeting
of the American Chemical Society,
Kansas City, Missouri,
September 12–17, 1982



American Chemical Society, Washington, D.C. 1983

In Multichannel Image Detectors Volume 2; Talmi, Yair;
ACS Symposium Series; American Chemical Society: Washington, DC, 1983.



Library of Congress Cataloging in Publication Data

(Revised for vol. 2)

Multichannel image detectors.

(ACS symposium series, ISSN 0097-6156; 236)

"Based on symposia sponsored by the Divisions of Analytical and Physical Chemistry of the American Chemical Society; v. 1, 176th meeting, Miami Beach, Fla., Sept. 11-12, 1978; v. 2, 184th meeting, Kansas City, Mo., Sept. 12-17, 1982."

Includes bibliographies and index.

I. Spectrum analysis—Congresses. 2. Spectrum analysis—Instruments—Congresses. 3. Image processing—Equipment and supplies—Congresses.

I. Talmi, Yair, 1942–. II. American Chemical Society. Division of Analytical Chemistry. III. American Chemical Society. Division of Physical Chemistry. IV. American Chemical Society. Meeting (176th: 1978: Miami Beach, Fla.) V. American Chemical Society. Meeting (184th: 1982: Kansas City, Mo.) VI. Series: ACS symposium series; 102, etc.

QD95.M975 1983 543'.0858 79-12441
ISBN 0-8412-0814-X

Copyright © 1983

American Chemical Society

All Rights Reserved. The appearance of the code at the bottom of the first page of each article in this volume indicates the copyright owner's consent that reprographic copies of the article may be made for personal or internal use or for the personal or internal use of specific clients. This consent is given on the condition, however, that the copier pay the stated per copy fee through the Copyright Clearance Center, Inc. for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. This consent does not extend to copying or transmission by any means—graphic or electronic—for any other purpose, such as for general distribution, for advertising or promotional purposes, for creating a new collective work, for resale, or for information storage and retrieval systems. The copying fee for each chapter is indicated in the code at the bottom of the first page of the chapter.

The citation of trade names and/or names of manufacturers in this publication is not to be construed as an endorsement or as approval by ACS of the commercial products or services referenced herein; nor should the mere reference herein to any drawing, specification, chemical process, or other data be regarded as a license or as a conveyance of any right or permission, to the holder, reader, or any other person or corporation, to manufacture, reproduce, use, or sell any patented invention or copyrighted work that may in any way be related thereto.

PRINTED IN THE UNITED STATES OF AMERICA

ACS Symposium Series

M. Joan Comstock, *Series Editor*

Advisory Board

David L. Allara

Robert Baker

Donald D. Dollberg

Brian M. Harney

W. Jeffrey Howe

Herbert D. Kaesz

Marvin Margoshes

Donald E. Moreland

Robert Ory

Geoffrey D. Parfitt

Theodore Provder

Charles N. Satterfield

Dennis Schuetzle

Davis L. Temple, Jr.

Charles S. Tuesday

C. Grant Willson

FOREWORD

The ACS SYMPOSIUM SERIES was founded in 1974 to provide a medium for publishing symposia quickly in book form. The format of the Series parallels that of the continuing ADVANCES IN CHEMISTRY SERIES except that in order to save time the papers are not typeset but are reproduced as they are submitted by the authors in camera-ready form. Papers are reviewed under the supervision of the Editors with the assistance of the Series Advisory Board and are selected to maintain the integrity of the symposia; however, verbatim reproductions of previously published papers are not accepted. Both reviews and reports of research are acceptable since symposia may embrace both types of presentation.