



DEVELOPMENTS IN
APPLIED SPECTROSCOPY

Volume 6

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Held in Chicago, Illinois
May 15-18, 1967

edited by
W. K. Baer, A. J. Perkins, and E. L. Grove

Developments In Applied Spectroscopy Vol

E.L. Grove, Alfred J. Perkins



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Developments in Applied Spectroscopy. Vol.6-, 1968 *Developments in applied spectroscopy* E. L. Grove, Alfred J. Perkins, 1969 *Developments in Applied Spectroscopy* E. L. Grove, 1969 **Developments in Applied Spectroscopy**, 1970 *Developments in Applied Spectroscopy* E. L. Grove, Alfred J. Perkins, 2021 *Developments in Applied Spectroscopy* E. L. Grove, Alfred J. Perkins, 2013-11-11

Volume 7 of *Developments in Applied Spectroscopy* is a collection of forty two papers selected from those that were presented at the 7th National Meeting of the Society of Applied Spectroscopy held in place of the 19th Mid America Symposium on Spectroscopy in Chicago May 13 17 1968 These papers selected by the editors and reviewed by persons knowledgeable in the field are those of the symposium type and not those pertaining to specific research topics that one would expect to be submitted to a journal It is the opinion of the committee that this type of publication has an important place in the literature The relatively large number of papers would result in quite a sizable volume if bound in one set of covers For this reason and to present the material in areas of more specific interest Volume 7 was divided into two parts Part A Physical Inorganic and Part B Physical Organic Developments The 7th National Meeting was sponsored by the Chicago Section as host in cooperation with the St Louis New England Penn York Niagara Frontier Cincinnati Ohio Valley New York Baltimore Washington North Texas Rocky Mountain and Southeastern Sections of the Society for Applied Spectroscopy and the Chicago Gas Chromatography Group The editors wish to express their appreciation to the authors and to those who helped with the reviewing The latter include Dr Elma Lanterman Mr John E Forrette Dr Carl Moore Dr B Jaselskis Mr H G Zelinski Mr **Developments in Applied Spectroscopy Volume 1** W. D. Ashby, 2013-04-17

On May 15 18 1961 the 12th Annual Symposium on Spectroscopy was held in Chicago Over the twelve year history of this meeting it has continually grown and now ranks as one of the major technical meetings in the field of spectroscopy The scope of the program itself represents a balance between research applications and control applications between applied and the more fundamental aspects of spectroscopy Papers are presented each year in the specialty areas of X ray ultraviolet visible infrared Raman EPR and NMR spectroscopy In many instances over the years excellent work has been reported at this symposium and no further publication was made These reports were then essentially lost for further reference It is the purpose of this publication to provide a source of reference for the papers presented at the 12th Annual Symposium This first attempt at publishing a proceedings does not include the entire program Several papers could not be given company clearance for publication and several more were intended for verbal presentation only and were never written for publication I as Coordinator of the Symposium would like to express my gratitude to the Symposium Committee John Ferraro Elwin Davis Joseph Ziomek John Kapetan L S Gray Jr Russell J Hansen J A Sheinkop L V Azaroff and Carl Moore whose diligence and labor resulted in a truly fine symposium and subsequently made possible this publication **Developments in Applied Spectroscopy** Elwin N. Davis, 2013-11-11 This volume presents some of the papers from the 15th Mid America Symposium

on Spectroscopy held in Chicago on June 2 5 1964 The Mid America Symposium is sponsored annually by the Chicago Section of the Society for Applied Spectroscopy in cooperation with the St Louis Niagara Frontier Cleveland Detroit Indianapolis and Milwaukee sections of the Society and the Chicago Gas Chromatography Discussion Group Although basically a regional meeting the Symposium continues to draw enthusiastic attendance from coast to coast and numerous foreign countries The present volume contains 45 of the 110 papers presented at the Symposium It is with some misgiving that we offer this volume as the proceedings of the meeting with less than half of the total papers included However it is the opinion of the Symposium Committee that publication of the excellent material available from the Symposium provides a valuable addition to the literature in the field of spectroscopy Response to previous volumes of this series seems to verify this opinion As Chairman of the Symposium and Editor of this volume I express my sincere appreciation to the authors whose manuscripts make up this volume I also extend my gratitude to the following members of the Symposium Committee whose time and effort made the 15th Mid America Symposium a success Mr Russell J Hansen Exhibits Mr Robert L

Developments in Applied Spectroscopy ,1970 Developments in Applied Spectroscopy William K. Baer,Alfred J. Perkins,E. L. Grove,2013-11-11 Volume 6 of Developments in Applied Spectroscopy presents a collection of twenty eight selected papers from those that were pre sented at the Eighteenth Mid America Symposium on Spectroscopy held in Chicago May 15 to 18 1967 In general the papers selected by the editors are those of the symposium type and not those papers pertaining to a specific research topic that one expects to be sub mitted to a journal Not all of the submitted papers were included Some revisions could not meet the deadline and others were not accepted based on the advice of the reviewers It is the opinion of the committee that this type of publication has an important place in the literature The Mid America Symposium is sponsored annually by the Chicago Section in cooperation with the Cincinnati Detroit Indianapolis Milwaukee Niagara Frontier and St Louis Sections of the Society of Applied Spectroscopy and the Chicago Gas Chromatography Group Although the Mid America is often thought of as a regional meeting its attendees and authors generally come from all parts of the United States and Canada Both applied and theoretical principles were provided in sessions on X ray emission atomic absorption nuclear magnetic resonance infrared Raman nuclear particle and gamma ray spectroscopy activation analysis and gas chromatography In addition there were symposia on absorption spectra of biologically significant molecules the structure of ice water and aqueous solu tions air and water pollution analyses and the practical application of statistics

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collection of papers given at the 16th Mid America Symposium on Spectroscopy held in Chicago June 14 17 1965 The Mid America Symposium is sponsored annually by the Chicago Section of the Society for Applied Spectroscopy in cooperation with the St Louis Niagara Frontier Cleveland Detroit Indianapolis and Milwaukee Sections of the Society and the Chicago Gas Chromatography Discussion Group Although we refer to this meeting as the Mid America Symposium it continues to attract attendance interest and inquiry from many parts of the world Sessions on Infrared Raman Ultraviolet Visible Emission Flame Atomic Absorption Nuclear Particle Gamma Ray Nuclear Magnetic Resonance X Ray Spectroscopy Spectroscopy Spectrophosphorimetry and Gas Chromatography provided interesting papers involving both applied and theoretical principles This volume continues a series of the Proceedings initiated in 1961 and is composed of a collection of 37 papers presented at this meeting It is the opinion of the Symposium Committee that although not a complete account of the proceedings publication of this collection as a reference is warranted As editors of this volume we wish to express our gratitude to the authors who gave their time and effort in submitting their manuscripts so that this volume could be published The Symposium Committee L S Gray W Baer Vivian Biske W Los eki M S Wang F Leahy J L Ogilvie B D

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