

CONTENTS

CONTRIBUTORS TO VOLUME 35	vii
FOREWORD	ix

Nonlinear Electron Acoustic Waves, Part I

RICHARD G. FOWLER

I. Introduction	1
II. Laboratory Experiments	4
III. Theories	56
IV. Conclusion to Part I	83
List of Symbols	84
References	85

Hollow Cathode Arcs

JEAN-LOUP DELCROIX AND ARMANDO ROCHA TRINDADE

I. Introduction	88
II. Historical Review of HCA	91
III. Working Regimes of HCA	92
IV. Operating Conditions for Low-Pressure HCA (N, LQ, and LI Regimes)	103
V. Experimental Results for the Normal Regime	109
VI. Theory of the HCA in the N Regime	157
VII. Applications of HCA	175
VIII. Conclusion	184
References	185

Gas Discharge Displays: A Critical Review

R. N. JACKSON and K. E. JOHNSON

I. Introduction	191
II. The Characteristics of dc Discharge Cells	195
III. dc Arrays	204
IV. ac Arrays	235
V. Conclusion	264
References	266

Multistable Semiconductor Devices and Integrated Circuits

GEORGE ABRAHAM

I. Introduction	270
II. Generation of Multistable States	272

III. Avalanche Device Physics	289
IV. Integrated Avalanche Devices	312
V. Multistable Circuits	332
VI. Negative Resistance Interactions	356
VII. Multistable Dynamics	369
VIII. Conclusion	387
References.	398
AUTHOR INDEX	403
SUBJECT INDEX	410