

CONTENTS OF VOLUME 7, PART A

CONTRIBUTORS TO VOLUME 7, PART A	v
FOREWORD	vii
PREFACE TO VOLUME 7	ix
CONTRIBUTORS TO VOLUME 7, PART B	xiii
CONTENTS OF VOLUME 7, PART B	xiv

1. Electron-Atom Interactions

1.1. Measurement of Electron Scattering from a Static Gas Target C. E. KUYATT	1
1.2. The Measurement of Optical Excitation Functions DOUGLAS W. O. HEDDLE	43
1.3. Crossed-Beam Electron-Neutral Experiments BENJAMIN BEDERSON	67
1.4. Electron Impact Ionization and Excitation of Positive Ions M. F. A. HARRISON	95

2. Photon Interactions with Particles

2.1. Transition Probabilities for Allowed and Forbidden Lines; Lifetimes of Excited States W. L. WIESE	117
2.2. Absorption, Photoionization, and Scattering Cross Sections J. A. R. SAMSON and G. L. WEISSLER	142
2.3. Photodetachment STEPHEN J. SMITH	179
2.4. Ionization, Detachment, and Dissociation by Electric and Magnetic Fields A. C. RIVIERE	208

3. Neutral-Neutral Interactions

- 3.1. Beam Experiments at Thermal Energies 227
H. PAULY and J. P. TOENNIES
- 3.2. Fast Beam Scattering Experiments 341
I. AMDUR

4. Ion-Neutral Experiments

- 4.1. Low Energies 361
E. W. McDANIEL
- 4.2. Measurements of Atomic Cross Sections in Static Gases 390
C. F. BARNETT and H. B. GILBODY
- 4.3. Merging Beams 476
ROY H. NEYNABER

AUTHOR INDEX 487

SUBJECT INDEX 501

