

CONTENTS

Chapter 1. Molecular Processes in Space: Introduction .....	1
A. Dalgarno	
Chapter 2. Theory of Electron- and Photon-Molecule Collisions .....	17
P.G. Burke and I. Shimamura	
Chapter 3. Experiments on Low-Energy Electron-Molecule Collisions .....	41
H. Ehrhardt	
Chapter 4. Subexcitation Electrons in Gases .....	65
M. Inokuti	
Chapter 5. Energy Transfer Processes in Collisions Involving Ionic Forces .....	87
F.A. Gianturco	
Chapter 6. Experiments on Ion-Molecule Collisions .....	115
Y. Kaneko	
Chapter 7. Recombination Processes .....	145
M.R. Flannery	
Chapter 8. Molecular Processes in the Upper Atmospheres of the Earth and Other Planets .....	173
T. Shimazaki	
Chapter 9. Interstellar Molecules .....	205
N. Kaifu	
Chapter 10. Atomic and Molecular Data Needed in Space, Fusion, and Related Researches .....	233
H. Tawara	
Contributors.....	253
Index.....	255