

CONTENTS

Parity and Time Reversal Invariance in Atoms.....	1
P.G.H. Sandars	
Quantum Electrodynamics (QED) in Strong Coulomb Fields: Charged Vacuum, Atomic Clock, and Narrow Positron Lines.....	39
Berndt Müller	
Quantum Electrodynamics of High-Z Few-Electron Atoms.....	111
Peter J. Mohr	
Radiative Transitions in One- and Two-Electron Ions.....	143
Gordon W.F. Drake and A. van Wijngaarden	
Highly Charged Ions in Astrophysics.....	189
John C. Raymond	
X-Ray Lasers.....	209
P. Jaeglé	
Selected Topics in X-Ray Spectroscopy from Highly Ionized Atoms in Hot Plasmas.....	245
Elisabeth Källne	
The Physics of Slow, Highly Charged Ion-Atom Collisions.....	267
A. Niehaus	
Electron Cooling Rings.....	293
D. Liesen	
Physics of the EBIS and Its Ions.....	321
Robert W. Schmieder	
Electronic Interaction of Multi-Charged Ions with Metal Surfaces at Low Velocites.....	377
H.J. Andrä	
Theory of Atoms in Dense Plasmas.....	419
Richard M. More	
Index.....	473