

CONTENTS

Volume 2

Foreword

vii

W. R. BENNETT, JR.

Some Aspects of the Physics of Gas Lasers

Properties of Optical Cavity Modes	5
Interaction of Radiation with Excited Atoms	62

R. NOVICK

Experimental X-Ray Astronomy

Introduction	207
Techniques	211
Scorpius X-1	230
The Crab Nebula	245
X-Ray Polarimetry	259
The Diffuse X-Ray Background	274

A. DALGARNO

Atomic Processes in Astrophysics

Radiative Transitions	289
Collision Processes	311