

CONTENTS

	<u>Page</u>
Theory of Synchrotron Radiation <i>A Hofmann</i>	1
Accelerator Physics <i>V Suller</i>	39
The European Synchrotron Radiation Facility <i>B Buras and D J Thompson</i>	72
Optical Systems for Synchrotron Radiation <i>M Howells</i>	82
Photon Detectors <i>I H Munro</i>	162
Data Acquisition Electronics for Synchrotron Radiation Studies <i>N Allinson</i>	180
X-ray Diffraction and Inelastic Scattering <i>G Materlik and T Wroblewski</i>	194
X-ray Imaging <i>K Bowen</i>	237
X-ray Powder Diffraction and High Pressure Physics <i>D Adams</i>	247
Analysis of Atomic Photoionisation Processes <i>H Kleinpoppen</i>	256
High Resolution Magneto-Optical Spectroscopy in the Ultraviolet <i>J P Connerade, T A Stavrakas and M A Baig</i>	310
The Contributions from Synchrotron Radiation Experiments to a Better Understanding of the Dynamics of Excited Molecules <i>P-M Guyon</i>	331
Excitations in Atoms, Molecules and Solids <i>J E Inglesfield</i>	378
Spectroscopy of Electrons in Solids <i>P Durham</i>	387
X-ray Absorption Spectroscopy <i>G N Greaves</i>	436
Photoemission and Photo-Stimulated Desorption from Solids <i>D Norman</i>	460
X-ray Absorption (EXAFS and XANES) at Surfaces <i>D Norman</i>	476
Industrial Applications of Synchrotron Radiation <i>R J Oldman</i>	494