CONTENTS OF VOL. II

MATERIALS . . . 1

Electromagnetic properties of metals and superconductors (IAEA-SMR-20/20) . . . 3
K.P. Sinha

Electromagnetic properties of semiconductors (IAEA-SMR-20/28) . . . 83
F. Bassani

Optical properties of non-crystalline materials: I. Optical absorption, photoemission and density of electron states (IAEA-SMR-20/54) . . . 125
E.A. Davis

Optical properties of non-crystalline materials: II. Fundamental absorption edge, luminescence, states in the gap and photoconductivity (IAEA-SMR-20/55) . . . 141
E.A. Davis

Electromagnetic properties of ferrites (IAEA-SMR-20/35) . . . 159
R. Me tselaar

TECHNIQUES AND APPLICATIONS . . . 223

Synchrotron radiation sources: their properties a&applications for VUV and X-ray spectroscopy (IAEA-SMR-20/40) . . . 225
E.E. Koch

ESCA: A survey of chemical, technical and industrial applications (IAEA-SMR-20/41) . . . ***2 7 5***
B. J. Lindberg

Solid state physics aspects of solar energy conversion (IAEA-SMR-20/44) . . . 301
B. 0. Seraphin

Optoelectronic devices (IAEA-SMR-20/53) . . . 327
A. Frova

Some fundamental problems relating to optical fibres: I. The attainment of loss coefficients of 10^{-5} cm^{-1} (IAEA-SMR-20/49) . . . 375
W. A. Gambling

Some fundamental problems relating to optical fibres: II. The ultimate bandwidth performance of optical fibre transmission lines (IAEA-SMR-20/50) . . . 39 1
W. A. Gambling

Luminescence and luminescent devices (IAEA-SMR-20/38) . . . 409
A.M. White

Optical properties of liquid crystals (IAEA-SMR-20/46) . . . 437
G. Durand

Secretariat of the Winter College . . . 469

List of Lecturers . . . 47 1

List of Participants . . . ***473***