

CONTENTS

Part I. Principles of microscopy

1. Introduction	3
2. The compound microscope	22
3. Illumination	42
4. Polarizing microscope	52
5. Phase – contrast and interference microscopy	82
6. Photomicrography	110
7. Ultra – violet microscopy	118
8. Reflecting microscopes and spectromicrography	125
9. The electron microscope	132
10. Metal shadow casting in visible microscopy	164

Part II. Microscopy of fibrous materials

11. Preparation of specimens	173
12. Animal fibres	192
13. Vegetable fibres	230
14. Manufactured fibres	249
15. Mineral fibres	258
16. Microscopic methods of fibre identification	260

Appendix **267**

Index of subjects	275
Index of names	280
Index of animals	285
Index of plants	286