

Contents of Volume II

List of plates for Volume II	ix
Preface	xi
Abbreviations and symbols	xiii
9 Autofluorescence in human and animal tissues	1
10 Autofluorescence in plants, fungi and bacteria	16
11 Petrology and materials science	40
12 Induced fluorescence	54
13 Fluorochromy	80
14 Indirect fluorochromy: immunofluorescence, hybridization, lectins	108
15 Enzymatically induced fluorescence	135
16 Specific applications	147
17 Specimen preparation	171
18 The history of fluorescence microscopy	183
Appendices	
5 Distinction between elastin and collagen	196
6 Acetic acid method for arylethylamines	197
7 Fluorochromes	198
Names and addresses of suppliers	393
8 Mounting media	397
References	398
Index to Volume II	451
Plates	
<i>Between pp. 192 and 193</i>	

Contents of Volume I

Preface	ix
Abbreviations and symbols	xi
1 Principles of fluorescence microscopy	1
2 Fluorescence: physics and chemistry	11
3 The optical system of the fluorescence microscope	35
4 Commercial fluorescence microscopes	64
5 Setting up and using the fluorescence microscope	104
6 Photography of fluorescence	129
7 The interpretation of the fluorescence microscopic image	162
8 Quantitative and scanning fluorescence microscopy	175
Appendices	
1 German–English vocabulary	205
2 Checklist of features of fluorescence microscopes	210
3A The laboratory microscope	213
3B Faults in the microscope and possible remedies	217
4A Data on photographic films for fluorescence photomicrography	221
4B Reciprocity failure	226
4C Relative brightness of image on film in various formats	232
4D Faults in photomicrographs and possible remedies	234
References	236
Index to Volume I	249
Plates	
<i>Between pp. 130 and 131</i>	
Plate 1. Combined fluorescence and phase-contrast microscopy.	
Plate 2. (a, b) Effects of different barrier filters.	
Plate 3. Example of a diazo slide.	