
CONTENTS

Preface	4
Glossary	5
Acknowledgements	6
1 Overview	7
The Nature of Microbial Communities	8
Life at Low Nutrient Concentrations: the Common Lot of Micro-organisms	16
Physicochemical Factors Affecting the Environmental Fate of Micro-organisms	18
Competitive Strategies of Micro-organisms	23
Interactions Involving Micro-organisms	25
References	27
2 Aquatic Environments	29
Microflora of the Different Aquatic Environments	30
The Marine Environment	33
The Freshwater Environment	56
References	84
3 Terrestrial Environments	87
Soil	88
Micro-organisms and Higher Plants	105
Other Terrestrial Habitats	122
References	128
4 Extreme Environments	131
High Temperature Environments	132
Extremely Acidic Environments	137
Highly Alkaline Environments	140
Non-alkaline, Highly Saline Environments	144
References	151
Appendices	152
I Development of the Microflora in a Flooded Gravel Pit	152
II The Great Goldmine Mystery	153
III A Comparison of the Microbiological Profile of the Soil on Two Sides of a Valley	154
Further Reading	155
Index	156