

CONTENTS

1. Introduction: A Brief Overview	1
2. Microbial Life at Low Temperatures: Ecological Aspects	9
3. Microbial Life at Low Temperatures: Mechanisms and Molecular Aspects	73
4. Microbial Life Under Pressure	105
5. Microbial Life at High Temperatures: Ecological Aspects	159
6. Microbial Life at High Temperatures: Mechanisms and Molecular Aspects	217
7. Microbial Life in Extreme pH Values	279
8. Life in High Salt and Solute Concentrations: Halophilic Bacteria	318
9. Water Relations of Microorganisms in Nature	369
10. How Microbes Cope with Heavy Metals, Arsenic and Antmony in their Environment	381
11. Life Under Conditions of High Irradiation	
Subject index	441