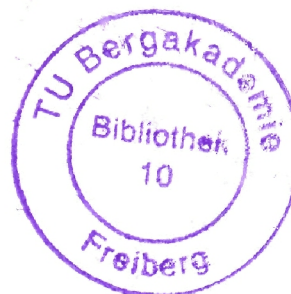


CONTENTS



Foreword by F. T. LAST	ix
Latitudes/longitudes of sites and locations of significance in the investigation of acidic deposition	xix
Summary	xxi
Acid rain since 1985—times are changing by T. G. BRYDGES and R. B. WILSON	1
The chemistry of the hydroxyl radical in the troposphere by D. H. EHHALT, H.-P. DORN and D. POPPE	17
Inputs of trace gases, particles and cloud droplets to terrestrial surfaces by D. FOWLER, J. H. DUYZER and D. D. BALDOCCHI	35
Regional atmospheric budgets of S and N fluxes: how well can they be quantified? by J. N. GALLOWAY and H. RODHE	61
Soil changes in forest ecosystems: evidence for and probable causes by D. W. JOHNSON, M. S. CRESSER, S. I. NILSSON, J. TURNER, B. ULRICH, D. BINKLEY and D. W. COLE	81
Physiological disturbances in plants caused by air pollutants by J. WOLFENDEN and T. A. MANSFIELD	117
Air pollution and vegetation: hypothesis, field exposure and experiment by M. H. UNSWORTH	139
An evaluation of forest decline based on field observations focussed on Norway spruce, <i>Picea abies</i> by E.-D. SCHULZE and P. H. FREER-SMITH	155
Reversibility of acidification: soils and surface waters by R. F. WRIGHT and M. HAUHS	169
Comparisons between experimentally- and atmospherically-acidified lakes during stress and recovery by D. W. SCHINDLER, T. M. FROST, K. H. MILLS, P. S. S. CHANG, I. J. DAVIS, L. FINDLAY, D. F. MALLEY, J. A. SHEARER, M. A. TURNER, P. J. GARRISON, C. J. WATRAS, K. WEBSTER, J. M. GUNN, P. L. BREZONIK and W. A. SWENSON	193
Freshwater acidification: its effects on species and communities of freshwater microbes, plants and animals by I. P. MUNIZ	227
Effects of air pollutants on buildings and materials by R. N. BUTLIN	255
Critique by F. T. LAST	273
Units used for characterising concentrations of atmospheric pollutants	325
Subject index	327
Species index	341