581.133 NIT

CONTENTS

List of contributors	ix
Nitrogen: agricultural productivity and environmental problems	1
2 Nodule development and nitrogen fixation in the Rhizobium/Bradyrhizobium system	17
Nodulins in root nodule development: function and gene regulation	31
4 Denitrification: the denitrifying bacteria and their interactions with plants	39
5 Some aspects of the utilization of nitrate and ammonium by plants	55
5 Uptake and assimilation of nitrate under nitrogen limitation	71
7 NO3 assimilation in root systems: with special reference to	91
8 Relationship between carbohydrate availability and assimilation of nitrate	103
9 Transport of nitrate and ammonium through plant membranes	121
10 Amino acid transport across the higher plant cell membrane	139
11 Akmmonia assimilation in higher plants	153
12 Environmentally induced adaptive mechanisms of plant amino acid metabolism	187
13 Barly seed storage proteins -structure, synthesis, and deposition	201
14 Polyamine metabolism and compartmentation in plant cells	229
15 The biology of the cyanogenic glycosides: new developments	249
16 Distribution and biological activity of alkaloidal glycosidase inhibitors from plants	271
Index	283