

CONTENTS

	Page
1. GENERAL INTRODUCTION	1
2. LEGISLATION ON AIR POLLUTION	19
3. INSTRUMENTS	43
4. PRELIMINARY PURIFICATION OF CRUDE GASES	77
5. GAS ABSORPTION TOWERS	
PART A – GENERAL	121
PART B – ABSORPTION OF NITROUS GASES	186
6. CENTRIFUGAL GAS ABSORBERS	219
7. REGENERATIVE PROCESSES FOR GAS ABSORPTION	229
8. SOLID CHEMICAL ABSORBENTS FOR GASES	275
PART A – REMOVAL OF HYDROGEN SULPHIDE FROM TOWN GAS	276
PART B – ORGANIC SULPHUR REMOVAL	321
9. ADSORPTION	328
10. PURIFICATION OF CRYOGENIC GASES	367
11. CATALYTIC DESTRUCTION OR CONVERSION OF IMPURITIES	
PART A – GASEOUS IMPURITIES	425
PART B – DESTRUCTION OF ODOURS	456
12. REMOVAL OF DUST FROM GASES	469
13. DUST COLLECTION FROM PROCESSES GENERAL INTRODUCTION	523
PART A – PURIFICATION OF GASES FROM PYRITES ROASTING	524
PART B – ELECTROSTATIC PRECIPITATORS FOR LARGE BOILERS – INCLUDING COMBINATIONS WITH CYCLONES	536
PART C – PROBLEMS OF THE CEMENT INDUSTRY	550
PART D – PROBLEMS IN BRASS FOUNDRIES	559
PART E – FUME COLLECTION IN STEEL WORKS	
14. TESTING PERFORMANCE OF EQUIPMENT FOR GRIT AND DUST REMOVAL	
GENERAL INTRODUCTION	577
PART A – SAMPLING OF DUST-LADEN GAS	580
PART B – FLUE GAS DUST SAMPLING	601
PART C – SIZE ANALYSIS OF DUST	622
PART D – ROUTINE MONITORING	661
15. MIST REMOVAL	
PART A – REMOVAL OF ACID MISTS FROM CHEMICAL PROCESSES	683
PART B – REMOVAL OF PHOSPHORIC ACID MISTS	720
16. SPRAY ELIMINATION	742
17. AIR PURIFICATION	
PART A – AIR PURIFICATION FOR BUILDINGS	760
PART B – GAS ABSORBENTS FOR BREATHING APPARATUS AND RESPIRATORS	789
PART C – PURIFICATION OF THE ATMOSPHERE IN NUCLEAR-POWERED SUBMARINES	799
18. METEOROLOGICAL FACTORS AFFECTING CHIMNEY DISCHARGES	810
19. HEIGHTS OF CHIMNEYS	824
APPENDIX – CONVERSION FACTORS	881
INDEX	882

