

CONTENTS

INTRODUCITON	5
PART I	
MAINTENANCE OF MACHINERY AND PLANT FOR SAFE WORKING DURING PRODUCTION	6
Legal requirements	7
Maintenance of machinery and safeguards	9
Maintenance of electrical equipment	11
Effective machine maintenance a contribution to safety	12
Cranes and other lifting appliances	14
Chains	15
Wire ropes	16
Boilers and other pressure vessels	18
Building and civil engineering work	202
Building and fixed structures	21
Transport	24
Hand tools	25
Ventilating plant	26
PART II	
PREVENTION OF ACCIDENTS DURING MAINTENANCE OPERATIONS	31
Plant design considerations	31
Handling facilities	33
Safe places of work	34
Tool kits	35
Cleaning and repair of machinery	35
Permits to work	36
Special problems of chemical plants	38
Summary	40
PART III	
EXAMPLES OF MAINTENANCE ACCIDENTS	42
Blast furncaces	42
Open-hearth furnaces	46
Cupolas	47
Gas and gas mains	50
Ladles	53
Foudery machines	56

Hot forging processes	59
Fragile roofs	62
Lifting machines	64
Mobile scaffold towers	66
Working platforms	68
Tipping lorries	69
APPENDIX	
MEMORANDUM ON SAFE CONDITIONS	
FOR WORKMEN DURING SHUT-DOWN	73