

CONTENTS

	Page
I MIXTURES, COMPOUNDS AND SOLUTIONS	1
II EQUILIBRIUM DIAGRAMS	6
III FREEZING OF IRON-CARBON ALLOYS	10
IV CRITICAL POINTS	17
V CRYSTALLINE FORMS	28
VI IMPURITIES OF STEEL	38
VII ALLOY STEELS	43
VIII HEAT-TREATMENT : CASE-HARDENING	49
IX CHARACTERISTICS OF ALLOY STEELS	58
X MICROSCOPIC STRUCTURE	66
XI TESTING OF STEEL	75
XII CORROSION : STAINLESS STEEL	92
XIII X-RAYS	103
TABLE I – BRINELL’S HARDNESS NUMBERS	110
TABLE II – CONVERSION TABLE OF VARIOUS HARDNESS NUMERALS	111
INDEX	113