

## CONTENTS

	Page
Introduction	1
PART I : THE PHYSICS OF METALS	
I The States of Aggregation	9
II The Physical Properties of Metals	47
III The Mechanical Properties of Metals. Their Change with Temperature	66
PART II : METALLIOGRAPHY	
IV The Structures of Binary alloys. The Phase Rule	121
V The Crystal Structure of Binary Alloys	168
VI Nonequilibrium in Binary Alloys. Quenching, Aging	181
VII The Structures of Ternary Alloys at Equilibrium	197
VIII The Properties of Alloys	202
PART III : METAL TECHNOLOGY	
IX The Shaping of Metals	235
X The Heat-treatment and Surface Treatment of Metals	264
XI The Testing of Metals	274
XII Commercial Alloys, Processes and Problems	290
Index	319