

CONTENTS OF VOLUME 1

Contents of Volume 2	ix
--------------------------------	----

PART I: INTRODUCTION AND BACKGROUND

Fundamentals of Superconductivity	5
E. A. Edelsack	
Phenomenological Theories of Superconductivity	25
W. D. Gregory	
Elements of the Theory of Superconductivity	71
W. N. Mathews Jr.	
Josephson Effect in a Superconducting Ring	149
F. Bloch	
Time-Dependent Superconductivity	163
D. J. Scalapino	
Refrigeration for Superconducting Devices	185
Robert W. Stuart	

PART II: SUPERCONDUCTING MATERIALS

Experimental Aspects of Superconductivity:	
Editors' Note	209
Superconductivity in Very Pure Metals	211
W. D. Gregory	
T _c 's -- The High and Low of It	263
Bernd T. Matthias	

The Metallurgy of Superconductors	289
Robert M. Rose	
Superconducting Intermetallic Compounds -	
The A15 Story	333
Robert A. Hein	
Theory of Superconducting Semiconductors	373
C. S. Koonce	
Enhancement Effects: Theory	389
C. S. Koonce	
Enhancement Effects	405
J. F. Schooley	
Author Index	xi
Subject Index	xxxiii