

## *Contents*

<b><i>Clustering and Precipitation in Crystalline Oxide Ceramics</i></b>	
<i>MORRIS E. FINE, Department of Materials Science and Center for Materials Research, Stanford University, Stanford, California</i> .....	1
 <b><i>Isothermal Diffusion in Multicomponent Systems</i></b>	
<i>J. S. KIRKALDY, Department of Metallurgy and Materials Science, McMaster University, Hamilton, Ontario, Canada</i> . . .	55
 <b><i>The Influence of Polycrystal Grain Size on Mechanical Properties</i></b>	
<i>R. W. ARMSTRONG, University of Maryland, College Park, Maryland</i> .....	101
 <b><i>Thermodynamic Analysis and Synthesis of Phase Diagrams: I. Binary, Substantially Disordered, Substitutional Systems</i></b>	
<i>PETER S. RUDMAN, Technion-Israel Institute of Technology, Haifa, Israel</i> .....	147
 <b><i>The Role of Computer Experiments in Materials Research</i></b>	
<i>J. R. BEELER, JR., Department of Nuclear Engineering, North Carolina State University, Raleigh, North Carolina</i> . . . . .	295
AUTHOR INDEX .....	477
SUBJECT INDEX .....	487
CUMULATIVE INDEX .....	491