

Contents

<i>The Continuum Theory of Dislocations</i>	
<i>T. MURA, Civil Engineering Department and Materials Research Center, Northwestern University, Evanston, Illinois</i>	1
 <i>Fatigue Hardening in Face-Centered Cubic Metals</i>	
<i>R. L. SEGALL, Physics Department, University of Warwick, Coventry, England.</i>	109
 <i>The Crystallography of Martensitic Transformations in Alloys of Iron</i>	
<i>C. M. WAYMAN, Department of Mining, Metallurgy, and Petroleum Engineering and Materials Research Laboratory, University of Illinois, Urbana, Illinois.</i>	147
 <i>Properties Calculations for Heterogeneous Systems</i>	
<i>S. P. MITOFF, General Electric Research and Development Center, Schenectady, New York.</i>	305
 <i>Lattice Dynamics and the Stability of Crystals</i>	
<i>DUANE C. WALLACE, Sandia Laboratory, Albuquerque, New Mexico.</i>	331
AUTHOR INDEX	405
SUBJECT INDEX	411
CUMULATIVE INDEX	415