

Contents

Fracture of Polycrystals	
T. L. Johnston, <i>Ford Motor Company</i>	1
Fracture in Viscoelastic Media	
M. L. Williams, <i>University of Utah</i>	23
A Systems-Type Approach to Problems of Fracture	
G. T. Hahn and A. R. Rosenfield, <i>Battelle Memorial Institute</i>	33
Viscoelasticity and Plasticity Considerations in the Fracture of Glasslike High Polymers	
L. C. Cessna, Jr., and S. S. Sternstein, <i>Rensselaer Polytechnic Institute</i>	45
Homogeneous Fatigue Processes in Viscoelastic Polymers	
Bernard Rosen, <i>Southern Research Institute</i>	81
Panel Discussion: Session I.	107
The Strength of Inorganic Glasses	
R. E. Mould, <i>American Glass Research, Inc.</i>	119
Fracture of Ceramics	
R. J. Stokes, <i>Carnegie Institute of Technology and Honeywell Research Center</i>	151
Some Aspects of the Fracture of Metallic Composites	
J. Gurland, <i>Brown University</i>	177
The Effects of Solutes on the Fracture Behavior of Metals	
N. S. Stoloff, <i>Rensselaer Polytechnic Institute</i>	197
The Microstructural Aspects of Tensile Fracture	
C. J. McMahon, Jr., <i>University of Pennsylvania</i>	247
Panel Discussion: Session II	285
Author Index	299
Subject Index	305