Dynamic Behavior of Materials
Proceedings of the Symposium Held during Materials Week
October 2–6, 1994
Rosemont, Illinois
Part I

Foreword

The field of “dynamic behavior of materials” encompasses a wide array of phenomena and effects of important technological consequences: high-strain-rate deformation, adiabatic shear localization, shock-wave effects, dynamic fracture and fragmentation, dynamic consolidation of materials, shock synthesis and shock-induced chemical reactions, dynamic response of composite materials, and impact. In addition to the traditional military applications in the areas of weapons, armor, and armor defeat, increasing emphasis is being placed on civilian aerospace and manufacturing applications, such as foreign object damage, high-speed machining, crash worthiness, micrometerite impact, new materials synthesis, *etc.*

The growing recognition that there was a need to expose the materials community to the diverse aspects of the dynamic behavior of materials led to the organization of this symposium; it was co-sponsored by the ASM/MSD Flow and Fracture Committee and the TMS Mechanical Metallurgy Committee. It consisted of six sessions, which were very well attended. The resulting papers are being published by *Metallurgical and Materials Transactions* in two parts, after being reviewed by the same exacting standards as regular papers.

These proceedings represent significant original contributions and the organizers/editors hope that future symposia in the same field will be held.

G. T. Gray III
Los Alamos National Laboratory

M. A. Meyers
University of California, San Diego

N. N. Thadhani
Georgia Institute of Technology