

Call for Papers

Symposium on M³D: Mechanics and Mechanisms of Material Damping

Papers are invited for a Symposium on M³D: Mechanics and Mechanisms of Material Damping sponsored by ASTM Committee E-28 on Mechanical Testing in cooperation with the Office of Naval Research. The symposium will be held 13–15 March 1991 in Baltimore, Maryland, in conjunction with the 11–13 March 1991 standards development meetings of Committee E-28.

The central objective of this symposium is to bring about a synergistic interaction between researchers in the field of mechanics of solids and materials science. The symposium is intended to foster a better understanding of the fundamentals of material damping leading to design of materials with enhanced intrinsic damping. It is hoped that this symposium will increase collaboration between the two disciplines.

Technical papers are invited on all aspects of innovative methods for enhanced material damping:

- Mechanics of Material Damping
- Mechanisms of Material Damping
- Measurement of Material Damping:
 - Relaxation Mechanisms
 - Zener Relaxation
 - Snoek Relaxation
 - Grain Boundary Relaxation
 - Point-Defect Relaxation
 - Dislocation Damping
 - Phase Transformations
 - Magnetoelastic Relaxation
 - Interfacial Damping
- Analytical Modeling in Multi-Phase Materials:
 - Correspondence Principles
 - Viscoelasticity of Heterogeneous Media
 - Anelasticity
 - Irreversible Thermodynamics
 - Internal State Variables
 - Plasticity: Micro and Macro
 - Metallic Foams
- Novel Techniques for the Measurement of Damping
 - Nonlinear Damping
 - Composite Materials:
 - Metal-Matrix
 - Polymer-Matrix
 - Ceramic-Matrix
 - Carbon-Carbon
 - Damage-Induced Damping
 - Porous Materials

Prospective authors are asked to submit a title, a 300–500 word abstract, and an ASTM Paper Submittal Form by **30 April 1990** to Dorothy Savini, Symposia Operations, ASTM, 1916 Race Street, Philadelphia, PA 19103-1187 (215/299-5413). Paper Submittal Forms are available from Ms. Savini.

A Special Technical Publication (STP) based on the symposium proceedings is anticipated by ASTM. Main authors will receive a complimentary copy of the volume(s) containing their papers. The main author is the author corresponding with the ASTM publications staff. All published authors may purchase reprints of the papers at cost.

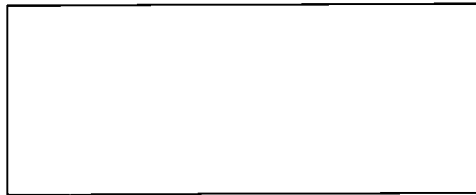
Final manuscripts for the STP based on this symposium are due by **15 January 1991**. This deadline will be rigidly enforced. All papers not submitted to ASTM by this deadline may be forwarded to the appropriate ASTM journal to be considered for publication. ASTM may print and distribute accepted abstracts with the approval of the symposium chairman.

More information is available from Symposium Chairmen Dr. Vikram K. Kinra, Dept. of Aerospace Engineering, Texas A&M University, College Station, TX 77843 (409/845-1667) and Dr. Alan Wolfenden, CSIRO, Institute of Industrial Technologies, Private Bag 28, Clayton, Victoria 3168, Australia (FAX: 61-03-544-1128).

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