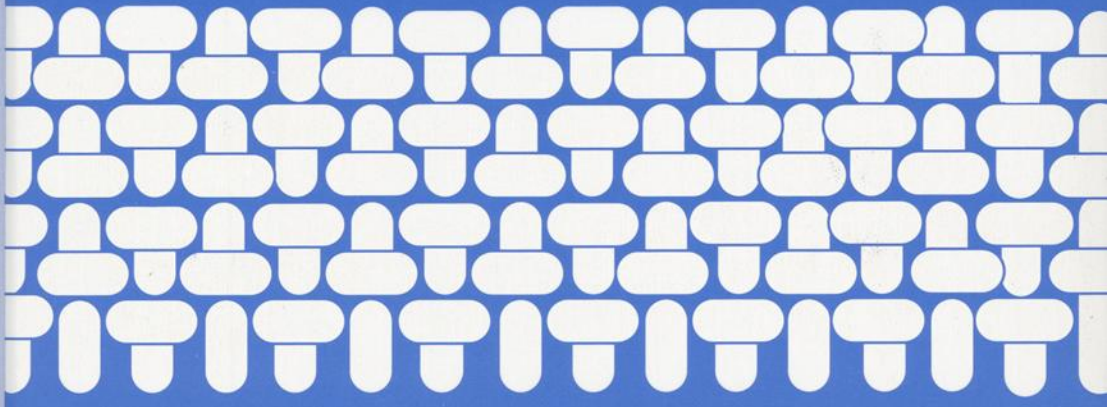
COMPOSITE MATERIALS



Testing and Design

Tenth Volume

Glenn C. Grimes, editor

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Foreword

The Tenth Conference on Composite Materials: Testing and Design was held 24–25 April 1990 in San Francisco, California. ASTM Committee D-30 on High Modulus Fibers and Their Composites sponsored the conference. Glenn C. Grimes, Lockheed Advanced Development Company (The Skunk Works), served as conference chairman and editor of this publication. Most of the papers presented are in this volume, which complements the first through the ninth conference publications with the ASTM STP numbers of 460, 497, 546, 617, 674, 787, 893, 972, and 1059, respectively, all titled *Composite Materials: Testing and Design.* The first Conference was held in 1969 in New Orleans, Louisiana, and has been held approximately every two years since then.

Acknowledgment

As the Symposium Editor, I wish to express my thanks for the effort put in by the eight Session Chairmen in conducting their sessions in San Francisco, California, getting presentation and technical paper reviewers, mediating differences between authors and reviewers, and writing a short summary of the technical papers in their session. I want to give special thanks to Paul Lagace (Session I), Michael Castelli (Session II), Stephen Swanson (Session III), Robert Croman (Session IV), Tom Dunyak (Session V), Karl Steiner (Session VI), Kevin O'Brien (Session VII), and Susan Avery (Session VIII) for their assistance in the accomplishment of this task.

In addition, I must express my appreciation for the approval and support of my endeavor by Robert Goetz, Director of Engineering, and Ben Rich and Sherman Mullin, the immediate past and current Presidents of Lockheed Advanced Development Company (The Skunk Works).

Finally, the help of my secretary, Marylyn Dahlquist, for all the word processing and mailings and the help of my engineering assistant, Edmond Dusablon, for all his telephoning, proofreading, and critical comments are recognized with my sincere appreciation.

Glenn C. Grimes

Chairman and Editor,
10th Symposium on Composite Materials:
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