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# **Fatigue and Fracture Toughness- CRYOGENIC BEHAVIOR**

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**STP 556**

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**AMERICAN SOCIETY FOR TESTING AND MATERIALS**

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# FATIGUE AND FRACTURE TOUGHNESS— CRYOGENIC BEHAVIOR

A symposium  
presented at the  
Seventy-sixth Annual Meeting  
AMERICAN SOCIETY FOR  
TESTING AND MATERIALS  
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C. F. Hickey, Jr., and R. G. Broadwell  
symposium cochairmen

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## Foreword

This special technical publication consists of eight papers presented during the symposium on Fatigue and Fracture Toughness of Metallic Materials at the Seventy-sixth Annual Meeting of the American Society for Testing and Materials held in Philadelphia, Pa., 24-29 June 1973. The symposium was sponsored by the Low Temperature Panel of the American Society for Testing and Materials, American Society of Mechanical Engineers, and Metal Properties Council Joint Committee on the Effect of Temperature on the Properties of Metals. C. F. Hickey, Jr., Army Materials and Mechanics Research Center, and R. G. Broadwell, Titanium Metals Corporation of America, presided as symposium cochairmen.

## **Related ASTM Publications**

**Fracture Toughness Testing at Cryogenic Temperature, STP 496 (1971), \$5.00  
(04-496000-30)**

**Fracture Toughness Evaluation by R-Curve Methods, STP 527 (1973), \$9.75  
(04-527000-30)**

**Progress in Flaw Growth and Fracture Toughness Testing, STP 536 (1973),  
\$33.25 (04-536000-30)**

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