

STRESS ANALYSIS and GROWTH OF CRACKS

*Proceedings of the
1971 National Symposium
on Fracture Mechanics
PART I*



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AMERICAN SOCIETY FOR TESTING AND MATERIALS

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FOREWORD

The 1971 National Symposium on Fracture Mechanics was held at the University of Illinois, Urbana-Champaign, Ill., 31 August through 2 September 1971. H.T. Corten, Department of Theoretical and Applied Mechanics, University of Illinois, presided as general chairman. J.P. Gallagher, Experimental Mechanics Branch, Air Force Flight Dynamics Laboratory, Wright-Patterson AFB, served as arrangements chairman.

The proceedings have been subjectively divided into complementary volumes: Part I — *Stress Analysis and Growth of Cracks* and Part II — *Fracture Toughness*. Part I is contained herein.

Related ASTM Publications

Current Status of Plane Strain Crack Toughness
Testing of High Strength Metallic Materials
STP 410, (1967), \$5.50, 04-410000-30

Electron Fractography, STP 436, (1968), \$11.00,
04-436000-30

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

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