

SERVICE FATIGUE LOADS MONITORING, SIMULATION, AND ANALYSIS

Abelkis/Potter, editors



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**AMERICAN SOCIETY FOR
TESTING AND MATERIALS**

SERVICE FATIGUE LOADS MONITORING, SIMULATION, AND ANALYSIS

A symposium
sponsored by ASTM
Committee E-9
on Fatigue
AMERICAN SOCIETY FOR
TESTING AND MATERIALS
Atlanta, Ga., 14-15 Nov. 1977

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Foreword

The symposium on Service Fatigue Loads Monitoring, Simulation, and Analysis was presented in Atlanta, Ga., 14-15 Nov. 1977. The symposium was sponsored by the American Society for Testing and Materials, through its Committee E-9 on Fatigue, in cooperation with American Society of Mechanical Engineers, Society of Automotive Engineers, and American Society of Civil Engineers. The symposium was organized by a committee consisting of: P. R. Abelkis, Douglas Aircraft Company, McDonnell Douglas Corp., and J. M. Potter, Air Force Flight Dynamics Laboratory, cochairmen; H. Jaeckel, Ford Motor Company, SAE representative; W. Milestone, University of Wisconsin, ASME representative; B. Hillbery, Purdue University, ASCE representative; and J. Ekvall, Lockheed-California Company; H. Fuchs, Stanford University; D. Bryan, Boeing Company, Wichita.

The symposium introductory paper "Random Load Analysis As Link Between Operational Load Measurement and Fatigue Life Assessment," was given by O. Buxbaum, Laboratorium für Betriebsfestigkeit, West Germany. This presentation was honored by the ASTM Committee E-9 as the best 1977 paper in E-9 sponsored activities.

Related ASTM Publications

Corrosion Fatigue Technology, STP 642 (1978), \$32.00, 04-642000-27

Use of Computers in the Fatigue Laboratory, STP 613 (1976), \$20.00, 04-613000-30

Fatigue Crack Growth Under Spectrum Loads, STP 595 (1976), \$34.50, 04-595000-30

Manual of Statistical Planning and Analysis for Fatigue Experiments, STP 588 (1975), \$15.00, 04-588000-30

A Note of Appreciation to Reviewers

This publication is made possible by the authors and, also, the unheralded efforts of the reviewers. This body of technical experts whose dedication, sacrifice of time and effort, and collective wisdom in reviewing the papers must be acknowledged. The quality level of ASTM publications is a direct function of their respected opinions. On behalf of ASTM we acknowledge with appreciation their contribution.

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