
**FIVE-YEAR
BIBLIOGRAPHY
ON
FATIGUE
1955-1959**



Published by the
AMERICAN SOCIETY FOR TESTING AND MATERIALS
1916 Race St., Philadelphia, Pa. 19103

ASTM Special Technical Publication No. 9-BB

© By American Society For Testing and Materials 1963
Library of Congress Catalog Number: 63-14392

CONTENTS

	PAGE
Introduction.....	v
Section 1—List of References	
Part A—United States.....	3
Part B—England and Other English-Speaking Countries	27
Part C—Western European Countries.....	51
Part D—Eastern European Countries.....	65
Part E—Asia and Far Eastern Countries.....	74
Key to Subject Index.....	77
Section 2—Subject Index.....	78
Section 3—Author Index.....	87
Section 4—Reference Sources.....	99

NOTE.—Comments and suggestions concerning the value and format of this publication would be appreciated. Correspondence should be addressed to:

Walter S. Hyler, Chairman
Survey Subcommittee III
ASTM Committee E-9 on Fatigue
Battelle Memorial Institute
505 King Avenue
Columbus, Ohio 43201

INTRODUCTION

Since 1950, Survey Subcommittee III of ASTM Committee E-9 on Fatigue has been compiling each year a list of fatigue references. These lists have been published by ASTM as *STP No. 9* with the title "Annual References on Fatigue." The lists contain authors, article or report title, reference source and other reference information, and in some cases abstracts of the articles. Efforts of the subcommittee during early years were confined to collecting references from the more popular reference sources. However, during the past several years, the efforts of Subcommittee III have been more inclusive so that each year a larger number of references are included in the "Annual References on Fatigue." To give some idea of growth, the first *STP, 9*, contained about 125 references; in 1959, *STP 9-J* contained about 400 references. Some of this growth understandably represents increased emphasis on research in the broad field of fatigue.

In 1957, Mr. R. E. Peterson, then chairman of Committee E-9, suggested that it might be valuable to compile the references in five- or ten-year bibliographies. Committee E-9 members indicated a real interest in the suggestion and Subcommittee III was assigned the responsibility. In the early planning stages, it was generally agreed that such a bibliography would be more useful if it contained a subject index. A tentative index was drawn up by Subcommittee III and was published in the *ASTM BULLETIN*, April, 1958. Based upon comments received, the index was revised somewhat and was adopted by Committee E-9 at the Annual Meeting, 1958. The key to the subject index appears on p. 77.

In 1963, Subcommittee III members completed review of each reference to verify the reference information for the years 1950 to 1954. Consequently, ASTM STP No. 9-AA was published, "Five-Year Bibliography on Fatigue, 1950-1954." Review of the references for the period 1955 to 1959 has now been completed. Thus, this publication represents the second five-year bibliography.

The format for this publication is the same as that previously used. It consists of four major sections:

- Section 1.—List of References.
- Section 2.—Subject Index.
- Section 3.—Author Index.
- Section 4.—Reference Sources.

Section 1:

Section 1 is a listing of 1532 references for the period 1955-1959 arranged chronologically in five parts as follows:

- Part A—United States
 - 1955: A-1 to A-77 (77 references)
 - 1956: A-78 to A-200 (123 references)
 - 1957: A-201 to A-299 (99 references)
 - 1958: A-300 to A-390 (91 references)
 - 1959: A-391 to A-562 (172 references)

- Part B—England and Other English-Speaking Countries
 - 1955: B-1 to B-90 (90 references)
 - 1956: B-91 to B-244 (154 references)
 - 1957: B-245 to B-354 (110 references)
 - 1958: B-355 to B-421 (67 references)
 - 1959: B-422 to B-478 (57 references)
- Part C—Western European Countries
 - 1955: C-1 to C-25 (25 references)
 - 1956: C-26 to C-82 (57 references)
 - 1957: C-83 to C-146 (64 references)
 - 1958: C-147 to C-214 (68 references)
 - 1959: C-215 to C-274 (60 references)
- Part D—Eastern European Countries
 - 1955: D-1 to D-24 (24 references)
 - 1956: D-25 to D-61 (37 references)
 - 1957: D-62 to D-98 (37 references)
 - 1958: D-99 to D-129 (31 references)
 - 1959: D-130 to D-162 (33 references)
- Part E—Asia and Far Eastern Countries
 - 1955: E-1 to E-13 (13 references)
 - 1956: E-14 to E-16 (3 references)
 - 1957: E-17 to E-29 (13 references)
 - 1958: E-30 to E-46 (17 references)
 - 1959: E-47 to E-56 (10 references)

The references in each part are arranged alphabetically by principal author; each reference is numbered and contains the part letter. The information in each entry includes the authors, the title of the article or report, complete information on the reference source, and the subject index numbers. For Parts B through E where references may originate from more than one country, the country in which the reference is published is listed in parentheses.

Section 2:

For those interested in searching out specific references pertinent to one or more detailed topics on fatigue, the Subject Index of Section 2 has been prepared. In the present Five-Year Bibliography on Fatigue, only those subject headings of the complete index that are needed to describe the present references are included in this section. Following each subject listed in this section are the appropriate reference numbers as obtained from Section 1.

Section 3:

A number of persons using the bibliography will be interested in following the works of individuals active in the field of fatigue research. To help in this regard, the Author Index of Section 3 has been prepared. This index is an alphabetical list by Part of all authors whose references appear in Section 1. Following each author's name, are presented the individual's references by appropriate reference number.

Section 4:

Throughout Section 1, reference source titles have been

abbreviated, generally following the procedures established in *Chemical Abstracts*. In some cases, it may be difficult to identify readily the reference source from the abbreviated title. Accordingly, Section 4 contains an alphabetical list of reference sources; each source is listed in the abbreviated form and with its complete title.

During the several years that this second Five-Year Bibliography on Fatigue has been in preparation, the efforts of Subcommittee III have been stimulated by H. J. Grover, present chairman of Committee E-9.

The chairman of Subcommittee III is especially grateful for the efforts of the subcommittee in the detailed task of screening and editing that each member has done. In addition, there were a number of Committee E-9 members who graciously volunteered to assist in this work. My

thanks and those of Subcommittee III members are given to these willing individuals.

To you, the reader and user of this bibliography, we hope that you will find this bibliography a useful source of information in your research. We will also appreciate receiving your comments and suggestions on the bibliography.

WALTER S. HYLER, *Chairman*
SURVEY SUBCOMMITTEE III
ASTM COMMITTEE E-9 ON FATIGUE

Subcommittee Members:

J. A. BENNETT	H. J. GROVER	P. R. TOOLIN
H. CORTEN	J. MILLSON	J. VIGLIONE
G. GOHN	R. C. A. THURSTON	G. STICKLEY

THIS PUBLICATION is one of many issued by the American Society for Testing and Materials in connection with its work of promoting knowledge of the properties of materials and developing standard specifications and tests for materials. Much of the data result from the voluntary contributions of many of the country's leading technical authorities from industry, scientific agencies, and government.

Over the years the Society has published many technical symposiums, reports, and special books. These may consist of a series of technical papers, reports by the ASTM technical committees, or compilations of data developed in special Society groups with many organizations cooperating. A list of ASTM publications and information on the work of the Society will be furnished on request.

