

Dec. 1969

Prof W. Weibull

Bilaga 1

Fatigue - modulj - underlag.

sed från detta på sid 4 & 7
från även med i bilaga 2

I Book:

(1961) Fatigue testing and analysis of results. Pergamon Press.

II Papers:

(1938) Investigations into strength properties of brittle materials. Proc. Roy. Acad. Engng. Sci. No. 149.

(1939a) A statistical theory of strength of materials. Proc. Roy. Acad. Engng. Sci. No. 15.

(1939b) The phenomenon of rupture in solids. IVA Handl. No. 153.

(1946) Influence of the volume on the fatigue strength (in Swedish), IVA (2), 62-64.

(1947) The thickness of ocean rediments measured by a reflexion method. Proc. Ocean. Inst. Göteborg.

(1948a) Electrical resistance of wires at large strains. Nature, Lond. 162, 966-967.

(1948b) Waves in compressible media. Transact. Roy. Inst. Techn. Sweden, No. 1d.

(1949) A statistical representation of fatigue failures in solids. K. Tekn. Högsk. Handl. No. 27; AMR 3, Rev. 1098.

(1950) Statistical viewpoints on the fatigue strength (in Swedish) Tekn. Tidskr. 80, 1059-1064; AMR 4, Rev. 2045.

(1951) A statistical distribution function of wide applicability. J. Appl. Mech. 18 (3), 293-297; AMR 6, Rev. 2.

- (1952a) Statistical planning of fatigue tests (in Swedish) Tekn. Tidskr. 82 (7), 157-161; AMR 6, Rev. 4.
- (1952b) Statistical design of fatigue experiments. J. Appl. Mech. 19 (1), 109-113; AMR 5, Rev. 3103.
- (1952c) The statistical aspect of fatigue failures MIT Conf., 182-196.
- (1952d) A survey of statistical effects in the field of material failure. AMR 5 (11), Feature article.
- (1953) Scatter in fatigue tests. Proc. Second ICAF Conf., Stockholm, App. 2.
- (1954a) The propagation of fatigue cracks in light-alloy plates. SAAB TN 25.
- (1954b) A new method for the statistical treatment of fatigue data. SAAB TN 30; AMR 8, Rev. 2375.
- (1954c) The static strength and the fatigue strength of riveted, spotwelded and Redux-bonded joints in 24S-T aluminum alloy sheet. SAAB TN 31.
- (1955a) Scatter in fatigue life of 24S-T alclad specimens with drilled holes. SAAB TN 32; AMR 8, Rev. 3748.
- (1955b) New methods for computing parameters of complete and truncated distributions. FFA Rep. No. 58.
- (1955c) Static strength and fatigue properties of threaded bolts. FFA Rep. 59.
- (1955d) The propagation of fatigue cracks in light-alloy plates. Proc. Third ICAF Conf., Cranfield, App. 3.

- (1955e) Scatter in fatigue life of 24S-T alclad plates. Proc. Third Conf., Cranfield, App. 3.
- (1956a) Basic aspects of fatigue. Stockholm, Coll., 289-298.
- (1956b) Effect of crack length and stress amplitude on the growth of fatigue cracks. FFA Rep. 65.
- (1956c) Static strength and fatigue properties of unnotched circular 75S-T specimens subjected to repeated tensile loading. FFA Rep. 68: Aeronaut. Engng. Rev. 2 (2), 142-142.
- (1956d) Scatter of fatigue life and fatigue strength in aircraft structural materials and parts. Columbia Conf., 1926-145.
- (1956e) Scatter of fatigue life and fatigue strength of aircraft materials. Proc. Fourth ICAF Conf., Zürich, Doc. 94.
- (1957a) Statistical handling of fatigue data and planning of small test series. FFA Rep. 69; Int. Aero. Abstr. 2 (6), 145-145.
- (1957b) History of service simulated load spectrum fatigue testing. Final Rep. ARDC Contr.
- (1957c) Scatter of fatigue life and fatigue strength in aircraft structural materials and parts. FFA Rep. 73.
- (1958a) Research on statistical evaluation of data from small test series. Ann. Rep. ARDC Contr. (will appear as a WADC Tech Rep.).
- (1958b) Remarques sur le dommage cumulatif de fatigue. Rev. Métall. 55 (8), 778-784.
- (1959a) Zur Abhängigkeit der Festigkeit von der Probengrösse. Ing. Arch., Grannel-Festschrift. 28, 360-362.

- (1959b) Statistical evaluation of data from fatigue and creep-rupture tests. WADC Tech. Rep. 59-400. AD 249450
- (1960a) Efficient methods for estimating fatigue-life distributions of roller bearings. Proc. Symposium on Rolling Contact Phenomena. General Motors Corporation, 252-265.
- (1960b) The fatigue damaging effect of a random load. Symposium Acoust. Fatigue. ASTM Spec. Tech. Publ. No. 284, 45-53.
- (1960c) An appraisal of five methods for estimating location and scale parameters of the Weibull distribution. Contract AF 61(514)-1208, Rep. No. 1, May 1960.
- (1960d) Further appraisal of the methods of moments and maximum likelihood. Contract AF 61(514)-1208, Rep. No. 2, Jul 1960.
- (1960e) Extension of the t-test to an arbitrary distribution. Contract AF 61(514)-1208, Rep. No. 3, Jul 1960.
- (1961) Efficient estimation of Weibull distribution parameters. Contract AF 61(514)-1208, Rep. No. 4, Feb. 1961.
- (1962) The effect of size and stress history on fatigue crack initiation and propagation. Contract AF 61(052)-522. ASD-TDR-62-785, Aug 1962.
- (1963a) A new method of estimating distribution parameters called the Uniformity Method. Contract AF 61(052)-522, Rep. No. 3 Jul 1963.
- (1963b) The amount of information provided by a random sample from the Weibull distribution. Contract AF 61(052)-522, Rep. No. 4, Dec 1963.

(1964a) Numerical evaluation of the integral

$$Y(m, x) = \int_0^{\infty} \log^m t \cdot t^x \cdot e^{-t} dt. \text{ Contract AF 61(052)-522,}$$

Rep. No. 4 A, Mar 1964

(1964b) Moment estimators for Weibull parameters and their asymptotic efficiencies. Contract AF 61(052)-522, Rep. No. 6, Jun 1964.

(1964c) Moments of the Weibull distribution and their derivatives. Contract AF 61(052)-522, Rep. No. 7, Sep 1964.

(1965a) Extremal product, geometric range and extremal quotient of a Weibull sample and their use for estimating parameters. Contract AF 61(052)-522, Rep. No. 9, Feb 1965.

(1965b) Moments about smallest sample value. Contract AF 61(052)-522, Rep. No. 10, Apr 1965; AFML-TR-67-375.

(1965c) Some non-linear order statistic estimators. Contract AF 61(052)-522, Rep. No. 11, Sep 1965.

(1966a) Estimation of parameters by a combination of best-linear and maximum-likelihood methods. Contract AF 61(052)-522, Rep. No. 12, Feb 1966, AFML-TR-67-105.

(1966b) References on methods for estimating Weibull distribution parameters. Contract AF 61(052)-943, Rep. No. 1, Apr 1966

(1966c) The efficiencies of unbiased linear estimations composed of one, two, or three order statistics. Contract AF 61(052)-943, May 1966.

- (1967a) The order statistics $y_i = \log(z_i^m)$, their properties and use for parameter estimation. Contract AF 61(052)-943; Jan 1967 AFML-TR-67-161.
- (1967b) Composition and decomposition of bounded variates with special reference to the Gamma and the Weibull distributions. AFML-TR-67-86.
- (1967c) Approximations of best linear, unbiased order-statistics estimators. Contract AF 61(052)-943; AFML-TR-67-198; Apr 1967.
- (1967d) Estimation of parameters from large samples arbitrarily censored or truncated. Contract AF 61(052)-943, May 1967; AFML-TR-67-197.
- (1967e) A useful modification of the linear, minimum-variance shape-parameter estimator. Contract AF 61(052)-943, Jul 1967.
- (1968a) A method for analysing a mixed population, illustrated by application to size distributions of craters. Contract AF 61(052)-943, June 1968.
- (1968b) A general method for estimating distribution parameters. Contract AF 61(052)-943, June 1968.
- (1969a) A criterion for the acceptability of assumed distributions. Contract AF 61(052)-943, Jan 1969.
- (1969b) The efficiencies of unbiased, linear estimators for scale and location parameters composed of one, two, or three order statistics. AFML-TR-69-134, April 1969.
- (1969c) Moment estimators for Weibull parameters and their asymptotic efficiencies. AFML-TR-69-135, April 1969.

- (1969d) A general method for estimating distribution parameters.
AFML-TR-69-136, April 1969.
- (1969e) High-fidelity approximations to median percentage points
of order statistics. Contract F 61052-69-C-0029, Oct 1969.