

**Twenty-third DOE Conference (1977) – Available from DTIC, Accession Database Number  
ADA058134, \$44.60**

Cover

Title

Foreword

Table of Contents

Agenda

*Analysis of Unbalanced Experiments*, H.O. Hartley

*Measure of Effectiveness for Division Level Models*, John H. Shuford and Frederick H. Knack

*Analysis of Ratio Data from Field Experimentation*, Brian Barr

*Physiological and Perceptual Adaptation to Sustained and Maximal Work in Young Women*, D. Kowal,  
D. Horstman, and L. Vaughan

*Theory of Least Chi-Square for Polynomials: Implication for Design of Experiments*, Richard L. Moore

*Simplified Construction of Basis Functions for Polynomial Splines*, J.J. Heimbald

*VALT Parameter Identification Flight Tests*, Robert L. Tomaine, Wayne H. Bryant, and Ward F. Hodge

*Experimental Design for Sensitivity Experiments of Computer Simulation Models*, Carl B. Bates

*On Validating Missile Simulations: Field Data Analysis and Time-Series Techniques*, Naim A. Kheir  
and Donald Sutherlin

*Statistical Validation of Guided Projectile/Missile Simulation Models*, Harold L. Pastrick

*Analysis of Variance of Multivariable Flight Test Data – A Call for Assistance*, James S. Hayden

*Analysis of Variance: Selection of a Model and Summary Statistics*, Frederick Steinheiser, Jr., and  
Kenneth I. Epstein

*Experimental Design for Testing Effect of Ingesting Crude Fiber on Plasma Zinc Levels in Human  
Volunteers*, Walter D. Foster and Barbara R. Harland

*Field Verification of Radiation Characteristics of Radars*, J.L. Harris

*Construction of Confidence Limits in a Nonlinear Regression*, C. Maxson Greenland and Lynn H. Davis

*Computing the Definite Integral  $\int_0^{\infty} e^{-(px^2+qx+r)} dx$  on a Programmable Calculator*, Donald W. Rankin

*A Freshman Error Can Be Fatal or I'm Not Sure About Being 95 Percent Sure*, Norman L. Wykoff

*Laser Velocimeter Data Interpretation by Histogram and Spectral Analysis*, Warren H. Young, Jr.,  
James F. Meyers, and Danny R. Hoad

*Resolving Under-Identification Through Replication in Structural Experimental Design*, William S.  
Mallios

The Samuel S. Wilks Memorial Medal Banquet Remarks, Frank E. Grubbs

*Three Dimensional Curve Fitting Techniques to Express Suppression as a Function of Range and Aspect Angle*, Chaunchy F. McKearn and David E. Brown

*On Validating Criterion Referenced Tests*, Milton H. Maier and Stephen F. Hirshfeld

*Analysis of Man-Machine Interface Information in Current Communications Systems*, R.J. D'Accardi, H.S. Bennett, and C.P. Tsokos

*Improved Quantification of Player Effects in Experimental Design*, William Mallios, Robert Batesole, Donald Leal, and Thieu Tran

*Errors in Linear Fits due to Function Mismatch and Noise with Spline Applications*, G.W. Lank, W.B. Kendall, and P.A. Gartenberg

*Autoregressive Models of Aircraft Motion and Air Defense Prediction*, Walter J. Dziwak

*A Sensitivity Evaluation of a Large Scale Tactical System Availability under Varying Support Resource Levels*, Robert A. Hall and Howard M. Bratt

*Use of Lognormal Confidence Bounds on Reliable Life When the True Life Distribution is not Lognormal*, Eugene E. Coppola

*Double Testing in Binomial Data*, G.R. Anderson

*Analysis of Censored Survival Data*, Norman Breslow

*The Jackknife: Survey and Applications*, Rubert G. Miller, Jr.

*Modeling and Estimating the Availability of Complex Systems: The Jackknife, Common-Cause, and Inspection Models*, Donald P. Gaver

*Qualitative Evaluation of the M60A1 Tank Camouflage by Operational Imagery Interpreters*, Edward R. Eichelman and Ronald L. Johnson

*Design of a Full-Scale Test for U.S. Army Helicopter Nap-of-the-Earth (NOE) Communication Systems*, Bernard V. Ricciardi, Bruce C. Tupper, and George H. Hagn

*Table Look-up and Interpolation for a Normal Random Number Generator, II*, William L. Shepherd and John W. Starner, Jr.

*Direct Degeneracy Attainment in Markov Chains*, Richard M. Brugger

*The Curse of the Exponential Distribution in Reliability*, Leon H. Herbach, J. Arthur Greenwood, and Saul B. Blumemthal

*Application of Time Series Models*, George E.P. Box

List of Attendees

Report Documentation Page