

THE ANNALS of MATHEMATICAL STATISTICS

FOUNDED AND EDITED BY H. C. CARVER, 1930-1938

EDITED BY S. S. WILKS, 1938-1949

THE OFFICIAL JOURNAL OF THE INSTITUTE
OF MATHEMATICAL STATISTICS

Contents

	PAGE
Unbiased coin tossing with a biased coin GORDON SIMONS AND WASSILY Hoeffding	341
On a class of infinite games related to Liar Dice THOMAS S. FERGUSON	353
Approximation of age dependent, multitype branching processes . . THOMAS G. KURTZ	363
A randomized procedure of saturated main effect fractional replicates W. T. FEDERER AND U. B. PAIK	369
Construction of β -content tolerance regions at confidence level γ for large samples from the k -variate normal distribution IRWIN GUTTMAN	376
Cauchy's equation and sufficient statistics on arcwise connected spaces . . J. L. DENNY	401
Some structure theorems for the symmetric stable laws MICHAEL SCHILDER	412
A duality between autoregressive and moving average processes concerning their least squares parameter estimates DAVID A. PIERCE	422
The asymptotic distribution of the measure of random sets with application to the classical occupancy problem and suggestions for curve fitting . . GEDALIA AILAM	427
On an asymptotic representation of the distribution of the characteristic roots of $S_1 S_2^{-1}$ TSENG C. CHANG	440
Sufficient conditions for the admissibility under squared error loss of formal Bayes estimators JAMES V. ZIDEK	446
Maximum likelihood estimation of a unimodal density function . . EDWARD J. WEGMAN	457
Functions of processes with Markovian states—III . . MARTIN FOX AND HERMAN RUBIN	472
Integral functionals of birth and death processes and related limiting distributions DONALD R. McNEIL	480
A note on a characterization of the multivariate normal distribution . . P. R. FISK	486
A correspondence between Bayesian estimation on stochastic processes and smoothing by splines GEORGE S. KIMELDORF AND GRACE WAHBA	495
Another look at Doob's theorem R. K. GETOOR AND MURALI RAO	503
Estimation for distributions with monotone failure rate B. L. S. PRAKASA RAO	507
On excess over the boundary GARY LORDEN	520

Continued on back cover

Vol. 41, No. 2—April 1970