

# THE ANNALS OF PROBABILITY

VOLUME 4

JUNE 1976

No. 3

## Articles

- Coupling the simple exclusion process . . . . . THOMAS M. LIGGETT  
Strong laws for the maxima of stationary Gaussian processes  
YASH MITTAL AND DONALD YLVISAKER
- Recurrence of stationary sequences  
DONALD GEMAN, JOSEPH HOROWITZ AND JOEL ZINN
- An age-dependent model with parental survival . . . THOMAS H. SAVITS  
Supercritical multitype branching processes . . . . . FRED M. HOPPE
- On the structure of semimarkov processes compared with Chung processes  
ERHAN ÇINLAR
- The infinite secretary problem  
JACQUELINE GIANINI AND STEPHEN M. SAMUELS
- Convergence and convolutions of probability measures on a topological  
group . . . . . EBERHARD SIEBERT
- Strong limit theorems for certain arrays of random variables  
R. J. TOMKINS

## Short Communications

- On the recurrence property of Gaussian Taylor series . . . . . J. S. HWANG  
Fluctuations of sequences which converge in distribution  
HOLGER ROOTZÉN
- Convergence of submartingales in Banach lattices  
JERZY SZULGA AND WOJBOR A. WOYCZYŃSKI
- On weak convergence of extremal processes . . . . . ISHAY WEISSMAN
- A note on invariance principles for induced order statistics  
PRANAB KUMAR SEN
- On a functional central limit theorem for random walks conditioned to stay  
positive . . . . . ERWIN BOLTHAUSEN
- On a local limit theorem concerning variables in the domain of normal at-  
traction of a stable law of index  $\alpha$ ,  $1 < \alpha < 2$  . . . . . SUJIT K. BASU
- The local limit theorem for the Galton-Watson process  
S. DUBUC AND E. SENETA
- Potentials of Markov processes without duality  
CHRISTOPHER H. NEVISON
- Notes on the  $k$ -dimensional Jensen inequality . . . . . MARTIN SCHAEFER
- Admissible translates for probability distributions . . WILLIAM N. HUDSON