

THE ANNALS of PROBABILITY

AN OFFICIAL JOURNAL OF THE
INSTITUTE OF MATHEMATICAL STATISTICS

Articles

- The Glivenko-Cantelli problem MICHEL TALAGRAND 837
 A refinement of the KMT inequality for the uniform empirical process
 DAVID M. MASON AND WILLEM R. VAN ZWET 871
 The contribution to the sum of the summand of maximum modulus . . . WILLIAM E. FRUITT 885
 A central limit theorem under metric entropy with L_2 bracketing MINA OSSIAENDER 897
 Edgeworth expansion for Student's t statistic under minimal moment conditions
 PETER HALL 920
 A law of the iterated logarithm for sums of extreme values from a distribution
 with a regularly varying upper tail ERICH HAEUSLER AND DAVID M. MASON 932
 Recurrence, transience and bounded harmonic functions for diffusions
 in the plane ROSS G. PINSKY 954
 Asymptotic properties of some multidimensional diffusions CHARLES R. CLARK 985
 On the means of approach to the boundary of Brownian motion M. CRANSTON 1009
 Singular perturbations of degenerate diffusions CAROL BEZUIDENHOUT 1014
 Stopping times of Bessel processes R. DANTE DEBLASSIE 1044
 A conditional limit theorem for the frontier of a branching Brownian motion
 S. P. LALLEY AND T. SELKE 1052
 Decoupling inequalities for polynomial chaos STANISLAW KWAPIEN 1062
 Double stochastic integrals, random quadratic forms and random series
 in Orlicz spaces STANISLAW KWAPIEN AND WOJBOG A. WOYCZYNSKI 1072
 Quadratic variation for a class of $L \log^+ L$ -bounded two-parameter martingales
 NIKOS E. FRANGOS AND PETER IMKELLER 1097
 A decomposition theorem for binary Markov random fields
 BRUCE HAJEK AND TOBY BERGER 1112
 Decomposition of binary random fields and zeros of partition functions
 CHARLES M. NEWMAN 1126
 Edge fluctuations for the one dimensional supercritical contact process
 ANTONIO GALVES AND ERRICO PRESUTTI 1131
 Absence of a stationary distribution for the edge process of subcritical oriented
 percolation in two dimensions ROBERTO HENRIQUE SCHONMANN 1146
 Random walks arising in random number generation
 F. R. K. CHUNG, PERSI DIACONIS AND R. L. GRAHAM 1148
 One-dimensional circuit-switched networks F. P. KELLY 1166
 On probabilistic analysis of a coalesced hashing algorithm B. PITTEL 1180
 On a problem of Kahane about the image of Gaussian Taylor series J. S. HWANG 1203
 An extension of Spitzer's integral representation theorem with an application
 ABDULHAMID A. ALZAID, C. RADHAKRISHNA RAO AND D. N. SHANBHAG 1210
 Majorization, randomness and dependence for multivariate distributions HARRY JOE 1217

Book Review

- Review of *Point Processes and their Statistical Inference* by Alan F. Karr
 PETER DONNELLY 1226

Corrections

- The influence of Mark Kac on probability theory HARRY KESTEN 1228
 Local nondeterminism and the zeros of Gaussian processes JACK CUZICK 1229
 On the average number of real roots of a random algebraic equation K. FARAHMAND 1230

Vol. 15, No. 3—July 1987