Selected Proceedings of the Sheffield Symposium on Applied Probability

edited by I. V. Basawa & R. L. Taylor

Proceedings of the Symposium on Applied Probability, Sheffield, August 1989. The purpose of the Sheffield Symposium on Applied Probability was to focus attention on some of the prominent directions in applied probability. This volume contains several major papers covering models in epidemiology, genetics, random fields, branching processes, random walks, directed polymers and evolution time-scales. The reader will find a broad array of interesting problems discussed in the eighteen technical articles included in this volume.

Contents

Some aspects of the Sheffield Symposium by I. V. Basawa & R. L. Taylor; Some remarks on recent developments in applied probability by J. Gani; The promotion and development of applied probability: A note on the contributions of Joe Gani by C. C. Heyde; Applications of random walks on finite graphs by D. Aldous; Analysis of infections disease data from a sample of households by N. G. Becker; On directed polymers in a random environment by E. Bolthausen; A look at perturbation approximations for epidemics by H. E. Daniels; A central limit theorem for evolving random fields by P. E. Greenwood & M. Ossiander; The two-locus ancestral graph by R. C. Griffiths; When did Joe's great...grandfather live? Or: On the time scale of evolution by P. Jagers, O. Nerman, & Z. Taib; Point processes and inference for rainfall fields by M. J. Phelan; A construction for processes with history-dependent transition intensities by P. Whittle; Accumulation points of a particular normalized random walk by A. Adler; Uniform convergence of martingales in the one-dimensional branching random walk by J. D. Biggins; An urn model and the coalescent in neutral infinite-alleles genetic processes by D. Branson; The genealogy of patterns of ESS's by C. Cannings & G. T. Vickers; Extinction probabilities of branching processes in random environments by D. R. Grey & L. Zhunwei; Measure-valued processes: Techniques and applications by K. J. Hochberg; Saddlepoint approximations in the case of intractable cumulant generating functions by J. E. Kolassa; U-statistics and double stable integrals by J. Mijnheer; Gene conversion and the infinite-sites model by S. A. Sawyer

> Order prepaid from:
> Institute of Mathematical Statistics
> 3401 Investment Boulevard, Suite 7
> Hayward, California 94545 (USA)