CONTENTS

PREFACE	v
ACKNOWLEDGMENTS	vii
CONTRIBUTORS	viii
LECTURES AND SPEAKERS AT THE WORKSHOP	x
Remarks on a Random Surface D. B. Abraham and C. M. Newman	1
Stochastic Order and Martingale Dynamics in Multivariate Life Length Models: A Review E. Arjas and I. Norros	7
Preservation and Attenuation of Inequality as Measured by the Lorenz Order B. C. Arnold	25
Lorenz Ordering of Order Statistics B. C. Arnold and J. A. Villasenor	38
Stochastic Orders and Their Application to a Unified Approach to Various Concepts of Dependence and Association <i>R. Bergmann</i>	48
Second Order Bonferroni-Type, Product-Type and Setwise Probability Inequalities H. W. Block, T. Costigan, and A. R. Sampson	74
Optimal Stopping of Life Testing: Use of Stochastic Orderings in the Case of Conditionally Exponential Lifetimes C. Costantini and F. Spizzichino	95
Multivariate Probability Inequalities: Convolution Theorems, Composition Theorems, and Concentration Inequalities M. L. Eaton and M. D. Perlman	104
Stochastic Orderings in Reliability KW. Gaede	123
Representation Theorems for Measures of Location and for Measures of Dispersion A. Giovagnoli and G. Regoli	141
Orderings of Risks and Their Actuarial Applications WR. Heilmann and KJ. Schröter	157
Applications of Likelihood Orderings in Economics I. Jewitt	174
Stochastic Orders in Welfare Economics M. Le Breton	190
Ordering Regression Models of Gaussian Processes H. Luschgy	207

Multivariate Stochastic Orderings and Generating Cones of Functions A. W. Marshall	231
Stochastic Ordering for Markov Processes on Partially Ordered Spaces with Applications to Queueing Networks W. A. Massey	248
Some Theory of Stochastic Dominance K. Mosler and M. Scarsini	261
Bounds for Distributions with Multivariate Marginals L. Rüschendorf	285
Repair Policies and Stochastic Order T. H. Savits	311
Regular, Sample Path and Strong Convexity: A Review M. Shaked and J. G. Shanthikumar	320
Stochastic Orders and Comparison of Experiments E. Torgersen	334
Expectation Inequalities from Convex Geometry R. A. Vitale	372
Concentration Indices and Concentration Curves S. Yitzhaki and I. Olkin	380