

Contents

Preface	vii
Noises, stochastic flows, and E_0 -semigroups JIRÔ AKAHORI, MASAKI IZUMI, AND SHINZO WATANABE	1
Volume of tubes and distribution of the maxima of Gaussian random fields SATOSHI KURIKI AND AKIMICHI TAKEMURA	25
Stochastic analysis on large scale interacting systems TADAHISA FUNAKI	49
Optimal transportation problem as stochastic mechanics TOSHIO MIKAMI	75
Quantum estimation and the quantum central limit theorem MASAHITO HAYASHI	95
Statistics and Gröbner bases—The origin and development of computational algebraic statistics SATOSHI AOKI AND AKIMICHI TAKEMURA	125
Analysis of square contingency tables in statistics SADAO TOMIZAWA	147
The structure of higher order asymptotic theory of statistical estimation MASAFUMI AKAHIRA	175
On an asymptotic expansion approach to numerical problems in finance AKIHIKO TAKAHASHI	199
Actuarial mathematics, basic theory and current issues in Japan KOJI KURODA AND NAOKI MATSUYAMA	219