# Multivariate Statistics Lecture Notes Mit Opencourseware

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with contributions by numerous experts

the idea of writing this bookarosein 2000when the rst author wasassigned to teach the required course stats 240 statistical methods in finance in the new m s program in nancial mathematics at stanford which is an interdisciplinary program that aims to provide a master s level education in applied mathematics statistics computing nance and economics students in the programhad di erent backgroundsin statistics some had only taken a basic course in statistical inference while others had taken a broad spectrum of m s and ph d level statistics courses on the other hand all of them had already taken required core courses in investment theory and derivative pricing and stats 240 was supposed to link the theory and pricing formulas to real world data and pricing or investment strategies besides students in theprogram thecoursealso attractedmanystudentsfromother departments in the university further increasing the heterogeneity of students as many of them had a strong background in mathematical and statistical modeling from the mathematical physical and engineering sciences but no previous experience in

nance to address the diversity in background but common strong interest in the subject and in a potential career as a quant in the nancialindustry thecoursematerialwascarefullychosennotonlytopresent basic statistical methods of importance to quantitative nance but also to summarize domain knowledge in nance and show how it can be combined with statistical modeling in nancial analysis and decision making the course material evolved over the years especially after the second author helped as the head ta during the years 2004 and 2005

this volume contains lectures given at the saint flour summer school of probability theory during the period 8th 24th july 1999 we thank the authors for all the hard work they accomplished their lectures are a work of reference in their domain the school brought together 85 participants 31 of whom gave a lecture concerning their research work at the end of this volume you will find the list of participants and their papers finally to facilitate research concerning previous schools we give here the number of the volume of lecture notes where they can be found lecture notes in mathematics 1975 n 539 1971 n 307 1973 n 390 1974 n 480 1979 n 876 1976 n 598 1977 n 678 1978 n 774 1980 n 929 1981 n 976 1982 n 1097 1983 n 1117 1988 n 1427 1984 n 1180 1985 1986 et 1987 n 1362 1989 n 1464 1990 n 1527 1991 n 1541 1992 n 1581 1993 n 1608 1994 n 1648 1995 n 1690 1996 n 1665 1997 n 1717 1998 n 1738 lecture notes in statistics 1971 n 307 table of contents part i erwin bolthausen large deviations and interacting random walks 1 on the construction of the three dimensional polymer measure 7 2 self attracting random walks 39 3 one dimensional pinning depinning transitions 105 references

covering statistical analysis on the two special manifolds the stiefel manifold and the grassmann manifold this book is designed as a reference for both theoretical and applied statisticians it will also be used as a textbook for a graduate course in multivariate analysis it is assumed that the reader is familiar with the usual theory of univariate statistics and a thorough background in mathematics in particular knowledge of multivariate calculation techniques

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