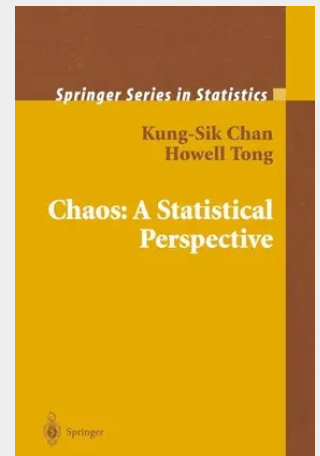


Chaos: A Statistical Perspective

It was none other than Henri Poincaré who at the turn of the last century, recognised that initial-value sensitivity is a fundamental source of randomness. For statisticians working within the traditional statistical framework, the task of critically assimilating randomness generated by a purely deterministic system, often known as chaos, is an intellectual challenge. Like some other statisticians, we have taken up this challenge and our curiosity as reporters and participants has led us to investigate beyond the earlier discoveries in the field. Earlier statistical work in the area was mostly concerned with the estimation of what is sometimes imprecisely called the fractal dimension. During the different stages of our writing, substantial portions of the book were used in lectures and seminars. These include the DMV (German Mathematical Society) Seminar Program, the inaugural session of lectures to the Crisis Points Project at the Peter Wall Institute of Advanced Studies, University of British Columbia and the graduate courses on Time Series Analysis at the University of Iowa, the University of Hong Kong, the London School of Economics and Political Science, and the Chinese University of Hong Kong. We have therefore benefitted greatly from the comments and suggestions of these audiences as well as from colleagues and friends. We are grateful to them for their contributions. Our special thanks go to Colleen Cutler, Cees Diks, Barbel Finkenhardt, Cindy Greenwood, Masakazu Shimada, Floris Takens and Qiwei Yao.

Chaos has been extensively studied by mathematicians and scientists. The focus of this book is on the influence of chaos on statistics. It will be of interest to researchers and graduate students in statistics, econometrics, engineering, and probability theory.



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