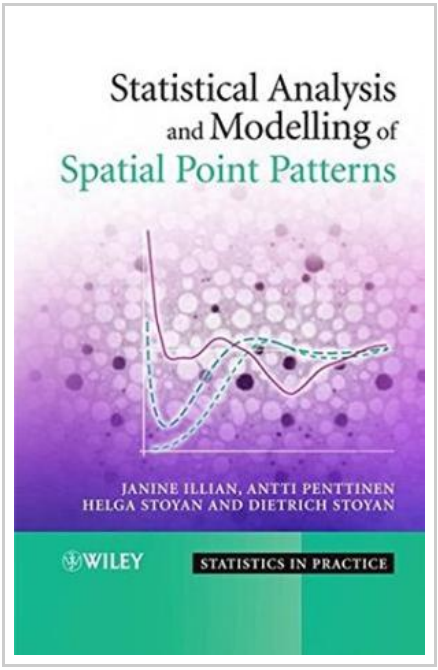

Statistical Analysis and Modelling of Spatial Point Patterns

By Illian, Dr. Janine; Penttinen, Prof. Antti; Stoyan, Dr. Helga; Stoyan, Dietrich

Wiley-Interscience, 2008. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface.List of Examples.1. Introduction.1.1 Point process statistics.1.2 Examples of point process data.1.2.1 A pattern of amacrine cells.1.2.2 Gold particles.1.2.3 A pattern of Western Australian plants.1.2.4 Waterstriders.1.2.5 A sample of concrete.1.3 Historical notes.1.3.1 Determination of number of trees in a forest.1.3.2 Number of blood particles in a sample.1.3.3 Patterns of points in plant communities.1.3.4 Formulating the power law for the pair correlation function for galaxies.1.4 Sampling and data collection.1.4.1 General remarks.1.4.2 Choosing an appropriate study area.1.4.3 Data collection.1.5 Fundamentals of the theory of point processes.1.6 Stationarity and isotropy.1.6.1 Model approach and design approach.1.6.2 Finite and infinite point processes.1.6.3 Stationarity and isotropy.1.6.4 Ergodicity.1.7 Summary characteristics for point processes.1.7.1 Numerical summary characteristics.1.7.2 Functional summary characteristics.1.8 Secondary structures of point processes.1.8.1 Introduction.1.8.2 Random sets.1.8.3 Random fields.1.8.4 Tessellations.1.8.5 Neighbour networks or graphs.1.9 Simulation of point processes.2. The Homogeneous Poisson point process.2.1 Introduction.2.2 The binomial point process.2.2.1 Introduction.2.2.2 Basic properties.2.2.3 The periodic binomial process.2.2.4 Simulation of the binomial process.2.3 The homogeneous Poisson point process.2.3.1 Introduction.2.3.2

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