A. Baddeley   I. Bárány
R. Schneider   W. Weil

Stochastic Geometry

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Stochastic Geometry

Adrian Baddeley,Imre Bárány,Rolf Schneider

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   Stochastic Geometry W. Weil,A. Baddeley,I. Bárány,R. Schneider,2006-10-26 Stochastic Geometry is the mathematical discipline which studies mathematical models for random geometric structures This book collects lectures presented at the CIME summer school in Martina Franca in September 2004 The main lecturers covered Spatial Statistics Random Points Integral Geometry and Random Sets These are complemented by two additional contributions on Random Mosaics and Crystallization Processes The book presents a comprehensive and up to date description of important aspects of Stochastic Geometry   Stochastic Geometry and Its Applications Sung Nok Chiu,Dietrich Stoyan,Wilfrid S. Kendall,Joseph Mecke,2013-06-27 An extensive update to a classic text Stochastic geometry and spatial statistics play a fundamental role in many modern branches of physics materials sciences engineering biology and environmental sciences They offer successful models for the description of random two and three dimensional micro and macro structures and statistical methods for their analysis The previous edition of this book has served as the key reference in its field for over 18 years and is regarded as the best treatment of the subject of stochastic geometry both as a subject with vital applications to spatial statistics and as a very interesting field of mathematics in its own right This edition Presents a wealth of models for spatial patterns and related statistical methods Provides a great survey of the modern theory of random tessellations including many new models that became tractable only in the last few years Includes new sections on random networks and random graphs to review the recent ever growing interest in these areas Provides an excellent introduction to theory and modelling of point processes which covers some very latest developments Illustrate the forefront theory of random sets with many applications Adds new results to the discussion of fibre and surface processes Offers an updated collection of useful stereological methods Includes 700 new references Is written in an accessible style enabling non mathematicians to benefit from this book Provides a companion website hosting information on recent developments in the field www wiley com go cskm Stochastic Geometry and its Applications is ideally suited for researchers in physics materials science biology and ecological sciences as well as mathematicians and statisticians It should also serve as a valuable introduction to the subject for students of mathematics and statistics   Stochastic Geometry for Wireless Networks Martin Haenggi,2013 Analyse wireless network performance and improve design choices for future architectures and protocols with this rigorous introduction to stochastic geometry
   Stochastic Geometry, Spatial Statistics and Random Fields Volker Schmidt,2014-10-24 This volume is an attempt to provide a graduate level introduction to various aspects of stochastic geometry spatial statistics and random fields with special emphasis placed on fundamental classes of models and algorithms as well as on their applications e g in materials science biology and genetics This book has a strong focus on simulations and includes extensive codes in Matlab and R which are widely used in the mathematical community It can be seen as a continuation of the recent volume 2068 of Lecture Notes in Mathematics where other issues of stochastic geometry spatial statistics and random fields were considered with a focus

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