Stochastic Geometry and Its Applications

By Sung Nok Chiu, Dietrich Stoyan, Wilfrid S. Kendall, Joseph Mecke

Stochastic Geometry and Its Applications By Sung Nok Chiu, Dietrich Stoyan, Wilfrid S. Kendall, Joseph Mecke

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 and Its Applications

By Sung Nok Chiu, Dietrich Stoyan, Wilfrid S. Kendall, Joseph Mecke

Stochastic Geometry and Its Applications By Sung Nok Chiu, Dietrich Stoyan, Wilfrid S. Kendall, Joseph Mecke

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 and Its Applications By Sung Nok Chiu, Dietrich Stoyan, Wilfrid S. Kendall, Joseph Mecke Bibliography

- Sales Rank: #2463571 in Books
- Published on: 2013-09-10
- Original language: English
- Number of items: 1

- Dimensions: 9.90" h x 1.25" w x 7.00" l, 2.29 pounds
- Binding: Hardcover
- 582 pages

Download and Read Free Online Stochastic Geometry and Its Applications By Sung Nok Chiu, Dietrich Stoyan, Wilfrid S. Kendall, Joseph Mecke

Editorial Review

From the Back Cover

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.

About the Author

Sung Nok Chiu, Department of Mathematics, Hong Kong Baptist University, Hong Kong

Dietrich Stoyan, Institute of Stochastics, TU Bergakademie Freiberg, Germany

Wilfrid S. Kendall, Department of Statistics, University of Warwick, UK

Joseph Mecke, Faculty of Mathematics and Computer Science, Friedrich-Schiller-Universität Jena, Germany

Users Review

From reader reviews:

Gerald Warfield:

Now a day those who Living in the era exactly where everything reachable by talk with the internet and the resources inside it can be true or not need people to be aware of each data they get. How many people to be smart in having any information nowadays? Of course the solution is reading a book. Studying a book can help people out of this uncertainty Information mainly this Stochastic Geometry and Its Applications book as this book offers you rich details and knowledge. Of course the details in this book hundred per-cent guarantees there is no doubt in it you probably know this.

Patti Metivier:

The guide with title Stochastic Geometry and Its Applications has lot of information that you can understand it. You can get a lot of benefit after read this book. This book exist new expertise the information that exist in this reserve represented the condition of the world today. That is important to yo7u to find out how the improvement of the world. This kind of book will bring you throughout new era of the glowbal growth. You can read the e-book in your smart phone, so you can read the idea anywhere you want.

George Seal:

Reading can called head hangout, why? Because if you find yourself reading a book especially book entitled Stochastic Geometry and Its Applications your brain will drift away trough every dimension, wandering in each aspect that maybe unidentified for but surely can become your mind friends. Imaging every single word written in a publication then become one application form conclusion and explanation in which maybe you never get ahead of. The Stochastic Geometry and Its Applications giving you another experience more than blown away your brain but also giving you useful facts for your better life in this particular era. So now let us present to you the relaxing pattern at this point is your body and mind will likely be pleased when you are finished studying it, like winning a casino game. Do you want to try this extraordinary spending spare time activity?

Stuart Rosado:

You may spend your free time to learn this book this guide. This Stochastic Geometry and Its Applications is simple to deliver you can read it in the playground, in the beach, train as well as soon. If you did not include much space to bring the particular printed book, you can buy often the e-book. It is make you better to read it. You can save typically the book in your smart phone. Thus there are a lot of benefits that you will get when one buys this book.

Download and Read Online Stochastic Geometry and Its Applications By Sung Nok Chiu, Dietrich Stoyan, Wilfrid S. Kendall, Joseph Mecke #C9KJYILQXW5

Read Stochastic Geometry and Its Applications By Sung Nok Chiu, Dietrich Stoyan, Wilfrid S. Kendall, Joseph Mecke for online ebook

Stochastic Geometry and Its Applications By Sung Nok Chiu, Dietrich Stoyan, Wilfrid S. Kendall, Joseph Mecke Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Stochastic Geometry and Its Applications By Sung Nok Chiu, Dietrich Stoyan, Wilfrid S. Kendall, Joseph Mecke books to read online.

Online Stochastic Geometry and Its Applications By Sung Nok Chiu, Dietrich Stoyan, Wilfrid S. Kendall, Joseph Mecke ebook PDF download

Stochastic Geometry and Its Applications By Sung Nok Chiu, Dietrich Stoyan, Wilfrid S. Kendall, Joseph Mecke Doc

Stochastic Geometry and Its Applications By Sung Nok Chiu, Dietrich Stoyan, Wilfrid S. Kendall, Joseph Mecke Mobipocket

Stochastic Geometry and Its Applications By Sung Nok Chiu, Dietrich Stoyan, Wilfrid S. Kendall, Joseph Mecke EPub

C9KJYILQXW5: Stochastic Geometry and Its Applications By Sung Nok Chiu, Dietrich Stoyan, Wilfrid S. Kendall, Joseph Mecke