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~~double-differenced~~

~~stochastic model~~

~~refinement based~~

~~on least-squares~~

~~variance component~~

~~estimation ...~~

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~~on least squares
variance component
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Geometry, knot
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~~RTG: Algebraic
Topology and Its
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background." 6. The

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7.

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Chicago faculty

members have

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~~21 UChicago faculty receive named, distinguished~~

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~~service~~

~~professorships~~

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Geometry and
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She has broad interests in applications of mathematics ... and simulating stochastic systems. Randall has been working to promote operations research

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creating the
geometry. Any CAD
jockey can do

“ design ... model

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and simulate the entire system operating in its setting to understand the system ' s behavior.

~~Does model-based engineering make sense?~~

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utility, and cost
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and its applications.
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models, kernel
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geometry ... By that time applications of the principle in electrodynamics and general relativity had been worked out. (2,3)
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analytic functions,
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field for over 20

years and is

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best treatment of
the subject of
stochastic
geometry, both as
an subject with vital
applications to
spatial statistics
and as a very
interesting field of
mathematics in its
own right.

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volume is to give an

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up-to-date

introduction to
tensor valuations
and their

applications.

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classical results
concerning scalar-
valued valuations on
the families of
convex bodies and
convex polytopes, it
proceeds to the
modern theory of

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Product and Fourier-
type transforms are
introduced and

various integral
formulae are

derived. New and
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are presented,

together with
generalizations in
several directions,
including

extensions to the

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non-Euclidean

setting and to non-convex sets. A

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tensor valuations to models in stochastic

geometry, to local

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geometry deals

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with models for
random geometric
structures. Its early
beginnings are
found in playful
geometric
probability
questions, and it
has vigorously
developed during
recent decades,
when an increasing
number of real-
world applications

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foundations.

Integral geometry studies geometric mean values with respect to invariant measures and is, therefore, the appropriate tool for the investigation of random geometric structures that

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exhibit invariance
under translations
or motions.

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Integral Geometry
provides the
mathematically
oriented reader
with a rigorous and
detailed
introduction to the
basic stationary
models used in
stochastic geometry

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– random sets, point processes, random mosaics – and to the integral

geometry that is needed for their investigation. The interplay between both disciplines is demonstrated by various fundamental results. A chapter on selected problems about

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probabilities and an

outlook to non-

stationary models

are included, and

much additional

information is given

in the section notes.

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geometry involves

the study of random

geometric

structures, and

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blends geometric, probabilistic, and statistical methods to provide powerful techniques for modeling and analysis. Recent developments in computational statistical analysis, particularly Markov chain Monte Carlo, have enormously extended the range

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a unique and
accessible overview
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Geometry, up to the

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frontiers of recent research. Since 2014, the yearly meeting of the French research structure GDR GeoSto has been preceded by two introductory courses. This book contains five of these introductory lectures. The first chapter is a

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relates four
classical problems
(the Buffon needle
problem, the
Bertrand paradox,
the Sylvester four-
point problem and
the bicycle wheel
problem) to current

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analyze the phenomena that arise in this context. It first focuses on medium access control mechanisms used in ad hoc networks and in cellular networks. It then discusses the use of stochastic geometry for the quantitative

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analysis of routing
algorithms in mobile
ad hoc networks.

The appendix also
contains a concise
summary of
wireless
communication
principles and of
the network
architectures
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two volumes.

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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

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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
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community. It can
be seen as a

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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 on asymptotic methods.

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Geometry, based on

current

developments in

geometry,

probability and

measure theory,

makes possible

modeling of two-

and three-

dimensional random

objects with

interactions as they

appear in the

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materials, biological tissues, macroscopically in soil, geological sediments etc. In combination with spatial statistics it is used for the solution of practical problems such as the description of spatial arrangements and the estimation of

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object characteristics. A related field is stereology, which makes possible inference on the structures, based on lower-dimensional observations.

Unfolding problems for particle systems and extremes of particle

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