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David J. Rogers,
Dirk U.

Pfeiffer, Kim B.
Stevens, Mark
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Epidemiology:
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Reprint by
Elliott, Paul,
Wakefield, Jon,
Best, Nicola,
Briggs, David

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Applications

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Epidemiology:

Methods and

Applications

(Oxford ...

Epidemiologists
are primarily
interested in
the occurrence

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of disease as categorized by time, person and place. Spatial epidemiology emphasizes the latter. It is concerned both with describing and understanding variations in disease from a distinctly

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Spatial
spatial
Epidemiology
perspective and
Methods And
as an area of
Applications
medical research
it is one of
growing
importance.

Spatial Epidemiology: Methods and Applications ...

1. Spatial

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epidemiology:
methods and
applications; 2.
Health event
data; 3. The use
of population
data in spatial
epidemiology; 4.
Socio-economic
factors at areal
level and their
relationship
with health; 5.
Bias and

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confounding in
spatial
epidemiology; 6.
Overview of
statistical
methods for
disease mapping
and its
relationship to
cluster ...

**Spatial
epidemiology:
methods and**

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**Applications -
Oxford . . .**

The second half of the book is divided between two types of application: disease mapping and clustering studies, and studies of exposure to environmental health risks.

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There are detailed descriptions of the use of statistical methods and models, and examples, some graphical, of the results of the analyses.

**Spatial
epidemiology:**

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**methods and
applications |
Journal ...**

Abstract : The book contains topics on methodologies and applications of these methods in spatial epidemiology, a branch of study concerned with describing,

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quantifying and explaining geographical variations in disease distribution. It is divided into 4 parts. The first part is an introduction to spatial epidemiological studies.

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Spatial

epidemiology: methods and applications.

understand basic
concepts in
spatial data,
methods, and GIS
terminology and
methods used in
spatial
epidemiology;
search and
process spatial

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and health data
available from
library,
government, and
other open
resources.

conduct
exploratory
spatial data
analysis for
disease mapping
using ArcGIS,
GeoDa, and R.
employ spatial

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modeling
approaches to
inform/generate
policy
recommendations
for disease
control and
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14 - RACHEL L.
PULLAN, HUGH J.
W. STURROCK,
RICARDO J.
SOARES
MAGALHÃES,
ARCHIE C. A.

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CLEMENTS, SIMON
J. BROOKER

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review of ...**

There is
currently great
interest in
spatial
epidemiology, as
evidenced by the
recent

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publication of
two edited
volumes devoted
to this area. 1,
2 While it seems
clear from a
public health
perspective that
the spatial
analysis of
disease
incidence can be
of great benefit
in reassuring

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population's
concerns over
local hazards,
and in
determining the
success or
otherwise of
prevention
programmes ...

**Statistical
Methods in
Spatial
Epidemiology ...**

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Spatial and Spatio-Temporal Epidemiology is a peer-reviewed scientific journal that provides a home for high quality work which straddles the areas of GIS, epidemiology, exposure science, and

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spatial
statistics. The
journal focuses
on answering
epidemiological
questions where
spatial and
spatio-temporal
approaches are
appropriate. The
methods should
help to advance
our
understanding of

Where To Download

Spatial
Epidemiology
Methods And
Applications

infectious and
non-infectious
diseases in
humans.

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Spatio-temporal
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Jon, Best,
Nicola, Briggs,
David online on
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shipping free
returns cash on
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available on
eligible
purchase.

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**Spatial
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Methods and
Applications by
Elliott ...**

The second part
presents basic
statistical
methods used in
spatial
epidemiology,
including
fundamental

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likelihood
principles,
Bayesian
methods, and
testing and
nonparametric
approaches. With
a focus on
special methods,
the third part
describes
geostatistical
models, splines,
quantile

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regression,
focused
clustering,
mixtures,
multivariate
methods, and
much more.

**Handbook of
Spatial
Epidemiology -
1st Edition -
Andrew B ...**

Spatial

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Epidemiology

Methods and
Applications

Edited by P.

Elliott, Jon

Wakefield,

Nicola Best, and

David Briggs.

Only critical

review of

spatial analysis

in epidemiology;

State-of-the-art

methodology,

Where To Download

unavailable

elsewhere; Easy
to read, clear
and concise;

Mixes practical
application with
theory; Useful
for researchers
at any level

**Spatial
Epidemiology -
P. Elliott; Jon
Wakefield;**

Page 42/126

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Nicola . . .

The majority of early applications of spatial sampling came from ecological or soil science, but there are now an increasing number of applications in infectious

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disease
epidemiology,
which we review
here.

Applications

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this book
explores the

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field of
geographical
variations in
disease
especially with
respect to
variations in
environmental
exposures at

**Spatial
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Applications PDF**

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"Spatial
Epidemiology"
mixes practical
application with
theory to
provide a
critical review
of methods,
challenges,
issues,
strengths, and
limitations of
spatial analysis
in epidemiology.

Where To Download

Subsections of
the book
progress from
types of data,
to statistical
methods, to
disease mapping
and clustering,
then end with
exposures and
links to health.

Where To Download

This is a new paperback edition of the well received text *Spatial Epidemiology: Methods and Applications*. It is an easy to read, clear and concise exploration of the field of geographical

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variations in
diseases.
Especially with
respect to
variations in
environmental
exposures at the
small-area scale
this book gives
an authoritative
account of
current practice
and
developments.

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The recent and rapid expansion of the field looks set to continue in line with growing public, governmental and media concern about environmental and health issues, and the scientific need

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to understand
and explain the
effects of
environmental
pollutants on
health. Of
interest to
epidemiologists,
public health
practitioners,
statisticians,
geographers,
environmental
scientists and

Where To Download

others concerned
with
understanding
the geographical
distribution of
disease and the
effects of
environmental
exposures on
human health. It
will be a
valuable source
for
undergraduate

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Spatial postgraduate
courses in
epidemiology,
medicinal
geography,
biostatistics,
environmental
health and
environmental
science as well
as a useful
source of
reference for
health policy

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makers, health
economists,
regulators and
others in the
field of
environmental
health.

Spatial
epidemiology is
concerned with
describing,
quantifying and
explaining

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geographical
variations in
disease,
especially with
respect to
variations in
environmental
exposures at the
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scale. The
recent and rapid
expansion of the
field looks set
to continue in

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line with

growing public,
government and
media concern

about

environment and
health issues,
and a scientific
need to

understand and
explain the
effects of
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pollutants on

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health. This book brings together contributions from an international group of practitioners from a wide spectrum of disciplines including epidemiologists, statisticians,

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geographers,
demographers and
pollution
modellers,
providing a
comprehensive
reference on
state-of-the-art
methods and
applications in
the emerging
field of spatial
epidemiology.

The book is

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divided into
four sections.
Section one
gives an
introduction to
spatial
epidemiological
studies and
summarises data
requirements and
problems with
respect to
modelling health
events,

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including bias
and confounding.
Section two
gives an
overview of the
state-of-the-art
in statistical
methodology,
including
Bayesian
approaches to
disease mapping,
cluster
detection,

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analysis of
point exposures,
geostatistical
methods and
methods for
ecological
correlation
studies. Section
three gives
examples of
disease mapping
and cluster
studies,
involving

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mortality data,
communicable
disease data,
Hodgkins
disease,
diabetes and
childhood
leukemias.

Section four
reviews methods
of exposure
assessment for
use in spatial
epidemiological

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studies, and
discusses
possible links
between exposure
and health data
in risk
assessment, and
in the effects
on human health
of traffic
related
pollution, water
quality and
climate change.

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This book aims to give an authoritative account of current practice and developments in the field. As such it should be of interest to epidemiologists, public health practitioners, statisticians,

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geographers,
environmental
scientists and
others concerned
with

understanding
the geographical
distribution of
disease and the
effects of
environmental
exposures on
human health. It
will be a a

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valuable source
for
undergraduate
and postgraduate
coursees in
epidemiology,
medical
geography,
biostatistics,
environmental
health and
environmental
science as well
as a useful

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source of
reference for
health policy
makers, health
economists,
regulators and
others in the
field of
environmental
health.

Handbook of
Spatial
Epidemiology

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explains how to model epidemiological problems and improve inference about disease etiology from a geographical perspective. Top epidemiologists, geographers, and statisticians share interdisci

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plinary
viewpoints on
analyzing
spatial data and
space-time
variations in
disease
incidences.
These analyses
can provide
important
information that
leads to better
decision making

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in public health. The first part of the book addresses general issues related to epidemiology, GIS, environmental studies, clustering, and ecological analysis. The

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second part
presents basic
statistical
methods used in
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epidemiology,
including
fundamental
likelihood
principles,
Bayesian
methods, and
testing and
nonparametric

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approaches. With a focus on special methods, the third part describes geostatistical models, splines, quantile regression, focused clustering, mixtures, multivariate methods, and

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much more. The final part examines special problems and application areas, such as residential history analysis, segregation, health services research, health surveys, infectious

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disease,
veterinary
topics, and
health
surveillance and
clustering.

Spatial
epidemiology,
also known as
disease mapping,
studies the
geographical or
spatial
distribution of

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health outcomes.
This handbook
offers a wide-
ranging overview
of state-of-the-
art approaches
to determine the
relationships
between health
and various risk
factors,
empowering
researchers and
policy makers to

Where To Download

tackle public
health problems.

Providing a
practical,
comprehensive
and up-to-date
overview of the
use of spatial
statistics in
epidemiology,
this book
examines spatial
analytical

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methods in
conjunction with
GIS and remotely
sensed data to
provide insights
into the
patterns and
processes that
underlie disease
transmission.

Since the
publication of
the second

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edition, many new Bayesian tools and methods have been developed for space-time data analysis, the predictive modeling of health outcomes, and other spatial biostatistical areas. Exploring

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these new
developments,
Bayesian Disease
Mapping:

Hierarchical
Modeling in
Spatial
Epidemiology,
Third Edition
provides an up-
to-date,
cohesive account
of the full
range of

Where To Download

Bayesian disease
mapping methods
and
applications. In
addition to the
new material,
the book also
covers more
conventional
areas such as
relative risk
estimation,
clustering,
spatial survival

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Spatial, and
longitudinal
analysis. After
an introduction
to Bayesian
inference,
computation, and
model
assessment, the
text focuses on
important
themes,
including
disease map

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reconstruction,
cluster
detection,
regression and
ecological
analysis,
putative hazard
modeling,
analysis of
multiple scales
and multiple
diseases,
spatial survival
and longitudinal

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studies,
spatiotemporal
methods, and map
surveillance. It
shows how
Bayesian disease
mapping can
yield
significant
insights into
georeferenced
health data. The
target audience
for this text is

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public health
specialists,
epidemiologists,
and
biostatisticians
who need to work
with geo-
referenced
health data.

Spatial
epidemiology is
the description
and analysis of

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the geographical distribution of disease. It is more important now than ever, with modern threats such as bio-terrorism making such analysis even more complex. This second edition of Statistical

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Methods in
Spatial
Epidemiology is
updated and
expanded to
offer a complete
coverage of the
analysis and
application of
spatial
statistical
methods. The
book is divided
into two main

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sections: Part 1 introduces basic definitions and terminology, along with map construction and some basic models. This is expanded upon in Part II by applying this knowledge to the fundamental problems within

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spatial
epidemiology,
such as disease
mapping,
ecological
analysis,
disease
clustering, bio-
terrorism, space-
time analysis,
surveillance and
infectious
disease
modelling.

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Provides a comprehensive overview of the main statistical methods used in spatial epidemiology. Updated to include a new emphasis on bio-terrorism and disease surveillance. Emphasizes the

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importance of
space-time
modelling and
outlines the
practical
application of
the method.

Discusses the
wide range of
software
available for
analyzing
spatial data,
including

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WinBUGS, SaTScan
and R, and
features an
accompanying
website hosting
related
software.

Contains
numerous data
sets, each
representing a
different
approach to the
analysis, and

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provides an insight into various modelling techniques. This text is primarily aimed at medical statisticians, researchers and practitioners from public health and epidemiology. It

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is also suitable for postgraduate students of statistics and epidemiology, as well professionals working in government agencies.

This handbook focuses on the enormous

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literature
applying
statistical
methodology and
modelling to
environmental
and ecological
processes. The
21st century
statistics
community has
become
increasingly int
erdisciplinary,

Where To Download

bringing a large collection of modern tools to all areas of application in environmental processes. In addition, the environmental community has substantially increased its scope of data collection

Where To Download

including
observational
data, satellite-
derived data,
and computer
model output.

The resultant
impact in this
latter community
has been
substantial; no
longer are
simple
regression and

Where To Download

analysis of
variance methods
adequate. The
contribution of
this handbook is
to assemble a
state-of-the-art
view of this
interface.

Features: An
internationally
regarded
editorial team.
A distinguished

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collection of
contributors. A
thoroughly
contemporary
treatment of a
substantial inte
rdisciplinary
interface.

Written to
engage both
statisticians as
well as
quantitative
environmental

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researchers. 34
chapters
covering
methodology,
ecological
processes,
environmental
exposure, and
statistical
methods in
climate science.

Containing
method

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descriptions and
step-by-step
procedures, the
Spatial
Epidemiological
Approaches in
Disease Mapping
and Analysis
equips readers
with skills to
prepare health-
related data in
the proper
format, process

Where To Download

these data using relevant functions and software, and display the results as mapped or statistical summaries.

Describing the wide range of available methods and key GIS concepts for

Where To Download

spatial
epidemiology,
this book
illustrates the
utilities of the
software using
real-world data.
Additional
topics include
geographic data
models, address
matching,
geostatistical
analysis,

Where To Download

universal
kriging, point
pattern
analysis, kernel
density, spatio-
temporal
display, and
disease
surveillance.

While mapped
data provide a
common ground
for discussions

Where To Download

between the public, the media, regulatory agencies, and public health researchers, the analysis of spatially referenced data has experienced a phenomenal growth over the last two

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decades, thanks
in part to the
development of
geographical
information
systems (GISs).
This is the
first thorough
overview to
integrate
spatial
statistics with
data management
and the display

Where To Download

capabilities of
GIS. It
describes
methods for
assessing the
likelihood of
observed
patterns and
quantifying the
link between
exposures and
outcomes in
spatially
correlated data.

Where To Download

This introductory text is designed to serve as both an introduction for the novice and a reference for practitioners in the field. Requires only minimal background in public health.

Where To Download

and only some
knowledge of
statistics
through multiple
regression
Touches upon
some advanced
topics, such as
random effects,
hierarchical
models and
spatial point
processes, but
does not require

Where To Download

prior exposure

Includes lavish
use of figures/i
llustrations

throughout the
volume as well
as analyses of
several data
sets (in the
form of "data
breaks")

Exercises based
on data analyses
reinforce

Where To Download

concepts

Epidemiology

Presents an
overview of the
complex

biological

systems used

within a global

public health

setting and

features a focus

on malaria

analysis

Bridging the gap

Where To Download

between agent-
based modeling
and simulation
(ABMS) and
geographic
information
systems (GIS),
Spatial Agent-
Based Simulation
Modeling in
Public Health:
Design,
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and Applications

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Spatial Malaria

Epidemiology

provides a

useful

introduction to

the development

of agent-based

models (ABMs) by

following a

conceptual and

biological core

model of

Anopheles

gambiae for

Where To Download

malaria

epidemiology.

Using spatial
ABMs, the book

includes

mosquito

(vector) control

interventions

and GIS as two

example

applications of

ABMs, as well as

a brief

description of

Where To Download

epidemiology
modeling. In
addition, the
authors discuss
how to most
effectively
integrate
spatial ABMs
with a GIS. The
book concludes
with a
combination of
knowledge from
entomological,

Where To Download

epidemiological,
simulation-
based, and geo-
spatial domains
in order to
identify and
analyze
relationships
between various
transmission
variables of the
disease. Spatial
Agent-Based
Simulation

Where To Download

Modeling in
Public Health:
Design,
Implementation,
and Applications
for Malaria
Epidemiology
also features: L
ocation-specific
mosquito
abundance maps
that play an
important role
in malaria

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control
activities by
guiding future
resource
allocation for
malaria control
and identifying
hotspots for
further
investigation
Discussions on
the best
modeling
practices in an

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effort to
achieve improved
efficacy, cost-
effectiveness,
ecological
soundness, and
sustainability
of vector
control for
malaria An
overview of the
various ABMs,
GIS, and spatial
statistical

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methods used in entomological and epidemiological studies, as well as the model malaria study A companion website with computer source code and flowcharts of the spatial ABM and a landscape

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generator tool
that can
simulate
landscapes with
varying spatial
heterogeneity of
different types
of resources
including
aquatic habitats
and houses
Spatial Agent-
Based Simulation
Modeling in

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Public Health:
Design,
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for Malaria
Epidemiology is
an excellent
reference for
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such as modeling
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experts, GIS
experts, spatial
analysts,

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mathematicians,
statisticians,
epidemiologists,
health policy
makers, as well
as researchers
and scientists
who use, manage,
or analyze
infectious
disease data
and/or
infectious
disease-related

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projects. The book is also ideal for graduate-level courses in modeling and simulation, bioinformatics, biostatistics, public health and policy, and epidemiology.

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