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models, and extensions  
to deal with dynamical  
systems and relational  
data. For each class of  
models, the text  
describes the three  
fundamental  
cornerstones:  
representation,  
inference, and learning,  
presenting both basic  
concepts and advanced

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This accessible  
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general introduction to  
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models (PGMs) from an  
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The book covers the  
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networks, undirected  
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Course Description:  
Probabilistic graphical models are a powerful

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framework for  
representing complex  
domains using  
probability distributions,  
with numerous  
applications in machine  
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Graphical models bring  
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Overview. A graphical model is a probabilistic model, where the conditional dependencies between the random variables is specified via a graph. Graphical models provide a flexible

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framework for modeling  
large collections of  
variables with complex  
interactions, as  
evidenced by their wide  
domain of application,  
including for example  
machine learning,  
computer vision, speech  
and computational  
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A graphical model is a probabilistic model, where the conditional dependencies between the random variables are specified via a graph. Graphical models provide a flexible framework for modeling large collections of variables with complex interactions, as evidenced by their wide domain of application,

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Models (PGMs) include  
several computational  
techniques based on a  
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representation of

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Graphical models, such as Bayesian classifiers, hidden Markov models, Markov networks, Bayesian networks, influence diagrams, etc. PGMs have a wide range of appli-

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representation, inference and learning principles, and reviews real-world applications for each type of model. These applications are drawn from a broad range of disciplines, highlighting the many uses of Bayesian classifiers, hidden Markov models, Bayesian networks, dynamic and temporal Bayesian networks,

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Markov random fields,  
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Bayesian classifiers,  
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models and causal  
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In the past decade, a  
number of different  
research communities

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within the  
computational sciences  
have studied learning in  
networks, starting from  
a number of different  
points of view. There  
has been substantial  
progress in these  
different communities  
and surprising  
convergence has  
developed between the  
formalisms. The  
awareness of this



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convergence and the  
growing interest of  
researchers in  
understanding the  
essential unity of the  
subject underlies the  
current volume. Two  
research communities  
which have used  
graphical or network  
formalisms to particular  
advantage are the belief  
network community and  
the neural network

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community. Belief  
networks arose within  
computer science and  
statistics and were  
developed with an  
emphasis on prior  
knowledge and exact  
probabilistic  
calculations. Neural  
networks arose within  
electrical engineering,  
physics and  
neuroscience and have  
emphasised pattern

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recognition and systems  
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together researchers  
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uses the concepts of  
graph theory to  
compactly represent and

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optimally predict values in our data problems. In real world problems, it's often difficult to select the appropriate graphical model as well as the appropriate inference algorithm, which can make a huge difference in computation time and accuracy. Thus, it is crucial to know the working details of these

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algorithms. This book starts with the basics of probability theory and graph theory, then goes on to discuss various models and inference algorithms. All the different types of models are discussed along with code examples to create and modify them, and also to run different inference algorithms on

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This book is for anyone who has to deal with lots of data and draw conclusions from it, especially when the data is noisy or uncertain. Data scientists, machine learning enthusiasts, engineers, and those who curious about the latest advances in machine learning will find PGM interesting. What You Will Learn

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Understand the concepts of PGM and which type of PGM to use for which problem Tune the model's parameters and explore new models automatically

Understand the basic principles of Bayesian models, from simple to advanced Transform the old linear regression model into a powerful probabilistic model Use



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power of PGM  
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throughout today's  
industry See how to  
compute posterior  
distribution with exact  
and approximate  
inference algorithms In  
Detail Probabilistic  
graphical models (PGM,  
also known as graphical

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Probabilistic  
models) are a marriage  
between probability  
theory and graph theory.  
Generally, PGMs use a  
graph-based  
representation. Two  
branches of graphical  
representations of  
distributions are  
commonly used, namely  
Bayesian networks and  
Markov networks. R has  
many packages to  
implement graphical

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models. We'll start by  
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look at how to do exact  
inference in graphical  
models. Proceeding,  
we'll introduce you to  
many modern R  
packages that will help  
you to perform  
inference on the models.  
We will then run a

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Bayesian linear regression and you'll see the advantage of going probabilistic when you want to do prediction.

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clustering and the  
discovery of hidden  
information in big data,  
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methods, PCA and ICA,  
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approach This book  
gives you a detailed and  
step-by-step explanation  
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concept, which will help  
you build and analyze  
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learning models and  
apply them to real-world  
problems. The  
mathematics is kept  
simple and each formula  
is explained thoroughly.

Graphical models in  
their modern form have  
been around since the

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late 1970s and appear today in many areas of the sciences. Along with the ongoing

developments of graphical models, a number of different graphical modeling software programs have been written over the years. In recent years many of these software developments have taken place within the R

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Community, either in the  
form of new packages  
or by providing an R  
interface to existing  
software. This book  
attempts to give the  
reader a gentle  
introduction to graphical  
modeling using R and  
the main features of  
some of these packages.  
In addition, the book  
provides examples of  
how more advanced



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aspects of graphical  
modeling can be  
represented and handled  
within R. Topics  
covered in the seven  
chapters include  
graphical models for  
contingency tables,  
Gaussian and mixed  
graphical models,  
Bayesian networks and  
modeling high  
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A graphical model is a statistical model that is represented by a graph.

The factorization properties underlying graphical models facilitate tractable computation with multivariate distributions, making the models a valuable tool with a plethora of applications.

Furthermore, directed

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graphical models allow  
intuitive causal  
interpretations and have  
become a cornerstone  
for causal inference.

While there exist a  
number of excellent  
books on graphical  
models, the field has  
grown so much that  
individual authors can  
hardly cover its entire  
scope. Moreover, the  
field is interdisciplinary

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