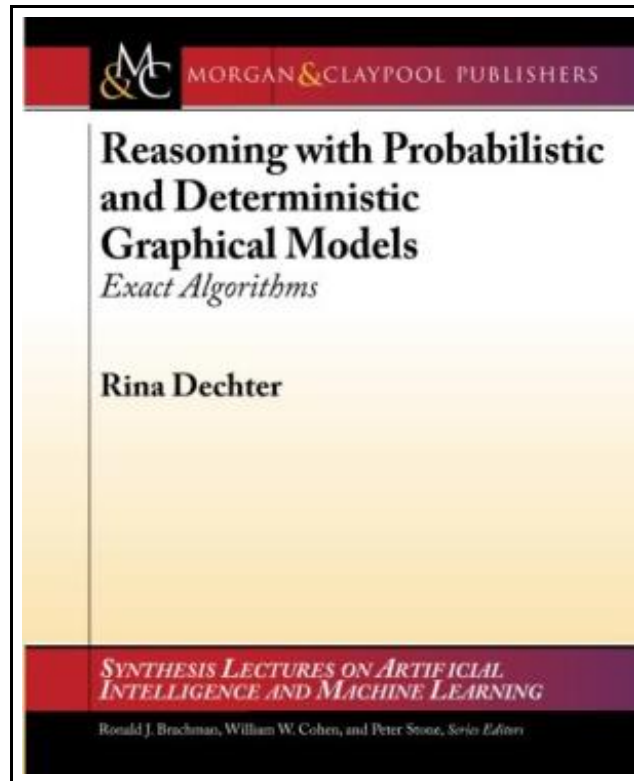


## Reasoning with Probabilistic and Deterministic Graphical Models: Exact Algorithms (Paperback)



Filesize: 2.79 MB



### ***Reviews***

*Unquestionably, this is actually the very best work by any article writer. It usually does not price a lot of. Once you begin to read the book, it is extremely difficult to leave it before concluding.*  
*(Augustine Pfannerstill)*

## REASONING WITH PROBABILISTIC AND DETERMINISTIC GRAPHICAL MODELS: EXACT ALGORITHMS (PAPERBACK)



Morgan Claypool Publishers, United States, 2013. Paperback. Book Condition: New. 235 x 190 mm. Language: English . Brand New Book. Graphical models (e.g., Bayesian and constraint networks, influence diagrams, and Markov decision processes) have become a central paradigm for knowledge representation and reasoning in both artificial intelligence and computer science in general. These models are used to perform many reasoning tasks, such as scheduling, planning and learning, diagnosis and prediction, design, hardware and software verification, and bioinformatics. These problems can be stated as the formal tasks of constraint satisfaction and satisfiability, combinatorial optimization, and probabilistic inference. It is well known that the tasks are computationally hard, but research during the past three decades has yielded a variety of principles and techniques that significantly advanced the state of the art. In this book we provide comprehensive coverage of the primary exact algorithms for reasoning with such models. The main feature exploited by the algorithms is the model's graph. We present inference-based, message-passing schemes (e.g., variable-elimination) and search-based, conditioning schemes (e.g., cycle-cutset conditioning and AND/OR search). Each class possesses distinguished characteristics and in particular has different time vs. space behavior. We emphasize the dependence of both schemes on few graph parameters such as the treewidth, cycle-cutset, and (the pseudo-tree) height. We believe the principles outlined here would serve well in moving forward to approximation and anytime-based schemes. The target audience of this book is researchers and students in the artificial intelligence and machine learning area, and beyond.

-  [Read Reasoning with Probabilistic and Deterministic Graphical Models: Exact Algorithms \(Paperback\) Online](#)
-  [Download PDF Reasoning with Probabilistic and Deterministic Graphical Models: Exact Algorithms \(Paperback\)](#)

## You May Also Like



### **The Birds Christmas Carol (Paperback)**

BOOK JUNGLE, United States, 2009. Paperback. Book Condition: New. 235 x 190 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Kate Douglas Wiggin was an American children s author and educator. She...

[Download eBook »](#)



### **Homespun Tales (Paperback)**

BOOK JUNGLE, United States, 2009. Paperback. Book Condition: New. 235 x 190 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Kate Douglas Wiggin was an American children s author and educator. She...

[Download eBook »](#)



### **The Flag-Raising (Paperback)**

BOOK JUNGLE, United States, 2010. Paperback. Book Condition: New. 235 x 190 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Kate Douglas Wiggin was an American children s author and educator. She...

[Download eBook »](#)



### **Mother Carey s Chickens (Paperback)**

BOOK JUNGLE, United States, 2010. Paperback. Book Condition: New. 235 x 191 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Kate Douglas Wiggin was an American children s author and educator. She...

[Download eBook »](#)



### **Mother Stories (Paperback)**

Bluewater Publications, United States, 2010. Paperback. Book Condition: New. Sarah Noble-Ives (illustrator). 235 x 191 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.I have endeavored to write, for mothers and dear...

[Download eBook »](#)