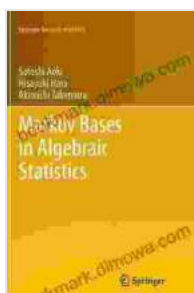


Markov Bases in Algebraic Statistics: Unlocking the Power of Statistical Modeling and Inference

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Markov Bases in Algebraic Statistics (Springer Series in Statistics Book 199) by Satoshi Aoki

★★★★★ 5 out of 5

Language : English

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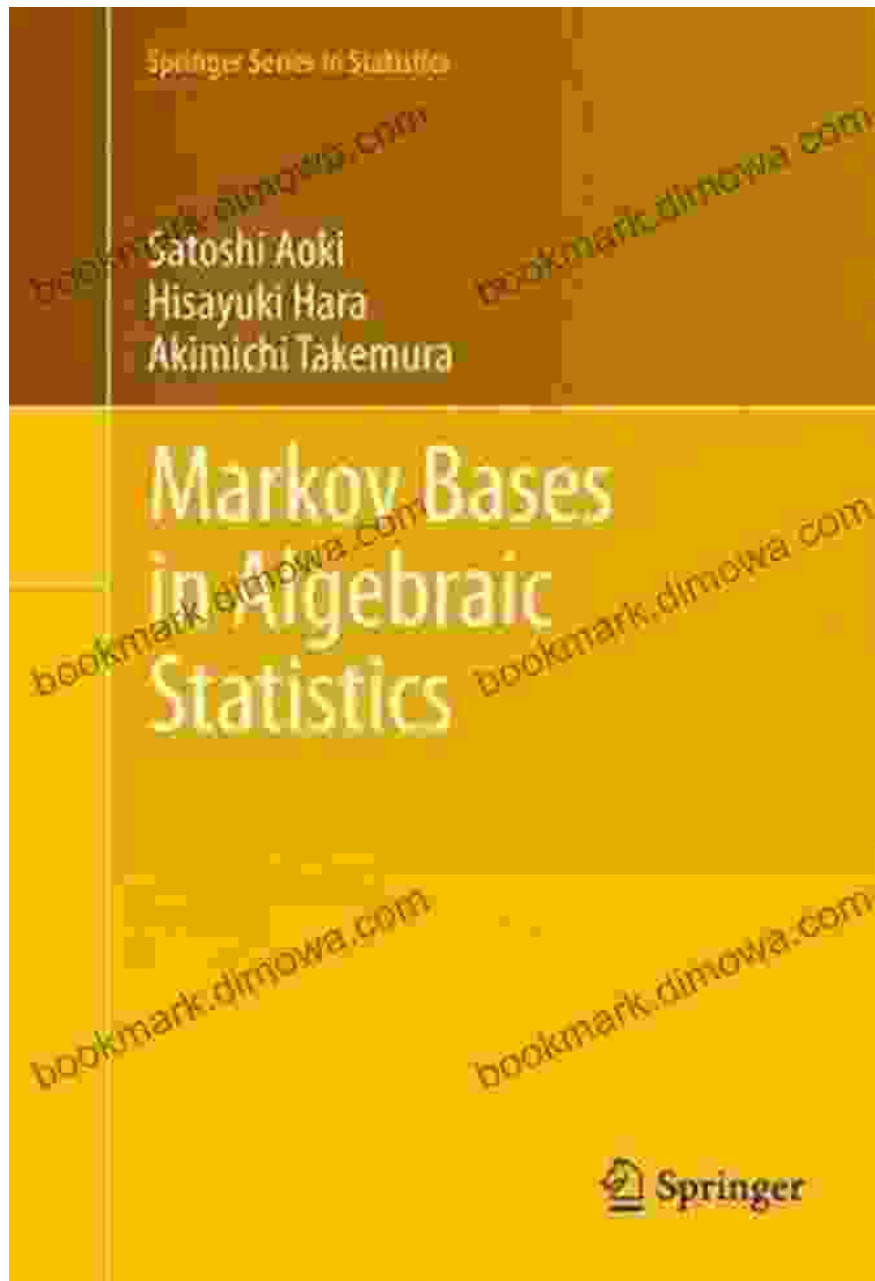
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What are Markov Bases?

Markov bases, a cornerstone of algebraic statistics, provide a powerful framework for representing and manipulating statistical models. Think of them as building blocks that enable you to construct complex statistical models in a systematic and efficient manner.



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- Provides a thorough to Markov bases and their applications in algebraic statistics
- Covers fundamental concepts, including algebraic varieties, ideals, and Gröbner bases

- Explores advanced topics such as graphical models, Bayesian networks, and causal inference
- Features numerous examples and exercises to reinforce understanding
- Authored by leading experts in the field, ensuring the highest level of accuracy and expertise

Benefits of Markov Bases in Algebraic Statistics

Incorporating Markov bases into your statistical toolbox unlocks a wealth of benefits:

- Enhanced statistical modeling capabilities through the ability to represent complex models algebraically
- Improved inference techniques, leading to more accurate and reliable results
- Simplified statistical computations, saving time and computational resources
- Deeper understanding of statistical models and their underlying structure

Target Audience

Markov Bases in Algebraic Statistics is an indispensable resource for:

- Statisticians seeking to advance their knowledge and skills in algebraic statistics

- Data scientists looking to enhance their statistical modeling and inference capabilities
- Researchers interested in exploring the latest developments in algebraic statistics
- Graduate students pursuing advanced degrees in statistics or data science

About the Authors

Markov Bases in Algebraic Statistics is authored by a team of renowned experts in algebraic statistics, including:

- **Michael Drton**, Professor of Statistics at the University of Chicago
- **Bernd Sturmfels**, Professor of Computer Science at the University of California, Berkeley
- **Seth Sullivant**, Associate Professor of Statistics at the University of Wisconsin-Madison

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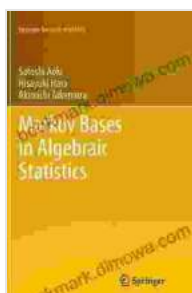
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- Lecture Notes on Markov Bases

- Tutorial on Algebraic Statistics and Markov Bases

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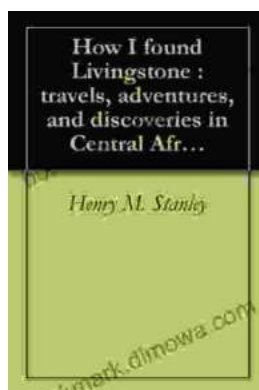
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