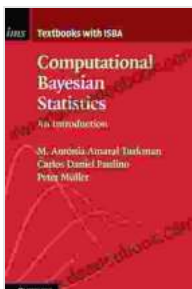# An Introduction to the Institute of Mathematical Statistics Textbooks, 11th Edition

The Institute of Mathematical Statistics Textbooks are a series of textbooks that are used to teach students the foundational concepts of mathematical statistics. The books are written in a clear and concise style, making them an ideal choice for students who are new to the field.

The 11th edition of the Institute of Mathematical Statistics Textbooks includes the following:

Computational Bayesian Statistics: An Introduction (Institute of Mathematical Statistics Textbooks Book 11)

★★★★☆ 4.2 out of 5

Language	: English
File size	: 10880 KB
Text-to-Speech	: Enabled
Enhanced typesetting	: Enabled
Screen Reader	: Supported
Print length	: 254 pages

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*

- A new chapter on Bayesian statistics

- Updated exercises and examples throughout the book

- A new appendix on statistical software

The Institute of Mathematical Statistics Textbooks are an essential resource for students who are studying mathematical statistics. The books provide a clear and concise to the field, and they are written by leading experts in the field.

Chapter 1: to Probability

The first chapter of the Institute of Mathematical Statistics Textbooks provides an to probability. The chapter covers the following topics:

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- The concept of probability

- The laws of probability

- Conditional probability

- Bayes' theorem

Chapter 2: Random Variables

The second chapter of the Institute of Mathematical Statistics Textbooks introduces random variables. The chapter covers the following topics:

*

- The concept of a random variable

- The distribution of a random variable

- Expected value and variance

Chapter 3: Statistical Inference

The third chapter of the Institute of Mathematical Statistics Textbooks introduces statistical inference. The chapter covers the following topics:

*

- The concept of statistical inference

- Point estimation

- Interval estimation

- Hypothesis testing

Chapter 4: Linear Regression

The fourth chapter of the Institute of Mathematical Statistics Textbooks introduces linear regression. The chapter covers the following topics:

*

- The concept of linear regression

- The least squares method

- Inference for linear regression

Chapter 5: Analysis of Variance

The fifth chapter of the Institute of Mathematical Statistics Textbooks introduces analysis of variance. The chapter covers the following topics:

*

- The concept of analysis of variance

- The one-way analysis of variance

- The two-way analysis of variance

Chapter 6: Nonparametric Statistics

The sixth chapter of the Institute of Mathematical Statistics Textbooks introduces nonparametric statistics. The chapter covers the following topics:

*

- The concept of nonparametric statistics

- The sign test

- The Wilcoxon rank-sum test
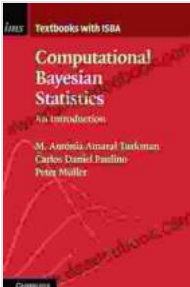
Chapter 7: Bayesian Statistics

The seventh chapter of the Institute of Mathematical Statistics Textbooks introduces Bayesian statistics. The chapter covers the following topics:

*

- The concept of Bayesian statistics

- The Bayesian approach to statistical inference

- Bayesian methods for linear regression

Summary

The Institute of Mathematical Statistics Textbooks are an essential resource for students who are studying mathematical statistics. The books provide a clear and concise to the field, and they are written by leading experts in the field.

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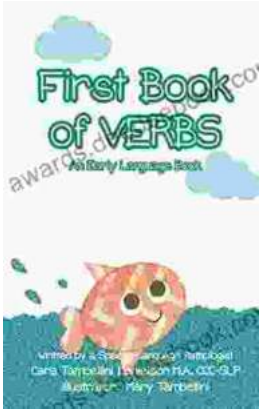
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