

Content Introduction

This book is suitable for college students, high school students, math enthusiasts interested in probability, and math teachers in general. It consists of seven chapters, which cover basic concepts of probability theory, random variables and their distributions, numerical characteristics of random variables, the law of large numbers and the central limit theorem, population, random samples and statistics, statistical cases, etc.

The book's concepts and theories are clear and easy to understand, focusing on calculation methods and applications. The text is short and vivid, and the arguments are in-depth, which makes the book particularly readable and teachable. Therefore, this book is a unique and distinctive textbook.

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For Any High School Curriculum, Including IB, A-Level, AP, and More
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High School Probability: A New Perspective

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Preface

Probability theory is the branch of mathematics that studies and reveals random phenomena. It is also a core course to cultivate students' careful and rigorous thinking and improve their mathematical skills. In the teaching of probability theory, the study of probability concepts and principles is of special importance. It is a necessary way to understand and master probability knowledge.

We have read and studied many textbooks on probability. We found that these textbooks are not very specific and simple in their elaboration and explanation of the concepts and principles of probability. Therefore, we have developed this textbook in order to meet the needs of students to learn probability.

This textbook has been used in the teaching of IB higher level mathematics course and has been highly praised by students. Students find the concepts and principles of this textbook particularly clear, concrete and simple, and logic is strong. Therefore, students find it easy to learn and master probability knowledge. Moreover, students have also achieved very good results in the study of probability.

It can be said that this textbook has completely ended the long-term difficult state of teaching probability theory. It makes the study of probability theory very easy. This has been verified in the long-term teaching practice.

To make this textbook fully adaptable, it contains essential contents applicable to different high school curricula, as well as contents marked with * that can be selected by various high schools.

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