Preface of the first edition 2018

The current series of Probability Theory and Statistics are based on two introductory books for beginners : A Course of Elementary probability Theory and A course on Descriptive Statistics.

All the more or less advanced probability courses are preceded by this one. We strongly recommend you do not skip it. It has the tremendous advantage of making the feel reader the essence of probability theory by using extensively random experiences. The mathematical concepts come only after a complete description of a random experience.

This book introduces the theory of probabilities from the beginning. Assuming that the reader possesses the normal mathematical level acquired at the end of the secondary school, we aim to equip him with a solid basis in probability theory. The theory is preceded by a general chapter on counting methods. Then, the theory of probabilities is presented in a discrete framework.

Two objectives are sought. The first is to give the reader the ability to solve a large number of problems related to probability theory, including application problems in a variety of disciplines. The second is to prepare the reader before he approached the textbook on the mathematical foundations of probability theory. In this book, the reader will concentrate more on mathematical concepts, while in the present text, experimental frameworks are mostly found. If both objectives are met, the reader will have already acquired a definitive experience in problem-solving ability with the tools of probability theory and at the same time he is ready to move on to a theoretical course on probability theory based on the theory of measurement and integration.