

A COURSE ON ELEMENTARY PROBABILITY THEORY

The Scope

This book introduces to Probability Theory 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 Probability Theory is presented in a discrete framework. Two objectives are targeted. 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 was to prepare the reader before he approached the manual on the mathematical foundations of probability theory. In that book, the reader will concentrate more on mathematical concepts, while in the present text, the focus should be on experimental frameworks, mostly.

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 will be ready to move on to a theoretical course on probability theory based on the theory of measure and integration.

The book ends with a chapter that allows the reader to begin an intermediate course in mathematical statistics.

The main author : Professor Gane Samb LO (PhD, 1986, Paris VI) has been teaching Measure and Integration, Probability Theory, Mathematical, Statistics and Applied Statistics for decades in the University Gaston Berger of Saint-Louis (Sénégal) and in several African Universities. He is also author of a series of books published or to be published in SPAS EDS

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ISBN: 9798582099772