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this market leader is written as an elementary introduction to the mathematical theory of probability for readers in mathematics engineering and the sciences who possess the prerequisite knowledge of elementary calculus a major thrust of the fifth edition has been to make the book more accessible to today's readers the exercise sets have been revised to include more simple mechanical problems and new section of self test problems with fully worked out solutions conclude each chapter in addition many new applications have been added to demonstrate the importance of probability in real situations a software diskette packaged with each copy of the book provides an easy to use tool to derive probabilities for binomial poisson and normal random variables it also illustrates and explores the central limit theorem works with the strong law of large numbers and more

this compact volume equips the reader with all the facts and principles essential to a fundamental understanding of the theory of probability it is an introduction no more throughout the book the authors discuss the theory of probability for situations having only a finite number of possibilities and the mathematics employed is held to the elementary level but within its purposely restricted range it is extremely thorough well organized and absolutely authoritative it is the only english translation of the latest revised russian edition and it is the only current translation on the market that has been checked and approved by gnedenko himself after explaining in simple terms the meaning of the concept of probability and the means by which an event is declared to be in practice impossible the authors take up the processes involved in the calculation of probabilities they survey the rules for addition and multiplication of probabilities the concept of conditional probability the formula for total probability bayes's formula bernoulli's scheme and theorem the concepts of random variables insufficiency of the mean value for the characterization of a random variable methods of

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the nature of statistics the description of sample data numerical methods for analyzing data percentiles and z scores probability rules of probability the binomial distribution the normal distribution linear correlation and regression sampling estimation hypothesis testing the chi square distribution analysis of variance nonparametric statistics

praise for the first edition this is a well written and impressively presented introduction to probability and statistics the text throughout is highly readable and the author makes liberal use of graphs and diagrams to clarify the theory the statistician thoroughly updated probability an introduction with statistical applications second edition features a comprehensive exploration of statistical data analysis as an application of probability the new edition provides an introduction to statistics with accessible coverage of reliability acceptance sampling confidence intervals hypothesis testing and simple linear regression encouraging readers to develop a deeper intuitive understanding of probability the author presents illustrative geometrical presentations and arguments without the need for rigorous mathematical proofs the second edition features interesting and practical examples from a variety of engineering and scientific fields as well as over 880 problems at varying degrees of difficulty allowing readers to take on more challenging problems as their skill levels increase chapter by chapter projects that aid in the visualization of probability distributions new coverage of statistical quality control and quality production an appendix dedicated to the use of mathematica and a companion website containing the referenced data sets featuring a practical and real world approach this textbook is ideal for a first course in probability for students majoring in statistics engineering business psychology operations research and mathematics probability an introduction with statistical applications second edition is also an excellent reference for researchers and professionals in any discipline who need to make decisions based on data as well as readers interested in learning how to accomplish effective decision making from data

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