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this invaluable book provides a broad introduction to a rapidly growing area of nonequilibrium statistical physics the first part of the book complements the classical book on the langevin and fokker planck equations h risken the fokker planck equation methods of solution and applications springer 1996 some topics and methods of solutions are presented and discussed in details which are not described in risken s book such as the method of similarity solution the method of characteristics transformation of diffusion processes into the wiener process in different prescriptions harmonic noise and relativistic brownian motion connection between the langevin equation and tsallis distribution is also discussed due to the growing interest in the research on the generalized langevin equations several of them are presented they are described with some details recent research on the integro differential fokker planck equation derived from the continuous time random walk model shows that the topic has several aspects to be explored this equation is worked analytically for the linear force and the generic waiting time probability distribution function moreover generalized klein kramers equations are also presented and discussed they have the potential to be applied to natural systems such as biological systems

simple clear and to the point probability and statistics applications for environmental science delineates the fundamentals of statistics imparting a basic understanding of the theory and mechanics of the calculations user friendliness uncomplicated explanations and coverage of example applications in the environmental field set this book apart from other textbooks on the same subject striking a balance between theory and applied mathematics the material is divided into three parts part i sets the stage with coverage of principles and fundamentals such as set notation probability distributions and the estimation of the mean and variance part ii discusses traditional statistics applications centering around the uses of probability distributions including how they relate to reliability and failure theory the authors elucidate many of the important distributions monte carlo methods and fault and event trees part iii delves into what some have come to define as contemporary statistics it covers hypothesis testing student s t and chi square tests regression analysis analysis of variance

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