First Steps in Random Walks: From Tools to Applications PDF
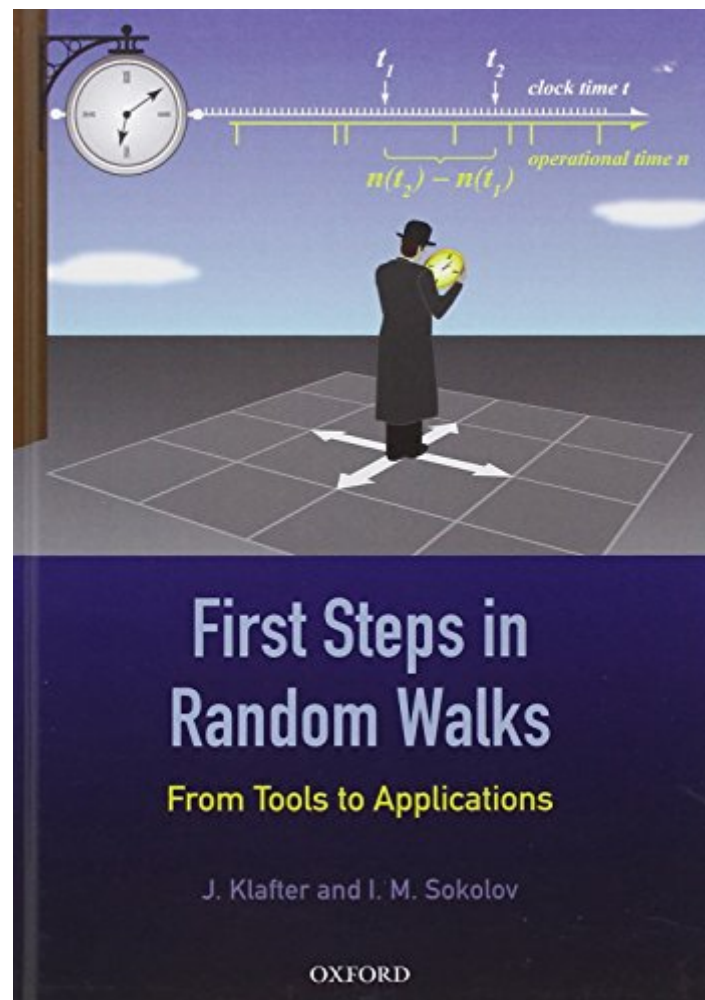

First Steps in Random Walks: From Tools to Applications by J. Klafter, I. M. Sokolov ISBN 0199234868

The name "random walk" for a problem of a displacement of a point in a sequence of independent random steps was coined by Karl Pearson in 1905 in a question posed to readers of "Nature". The same year, a similar problem was formulated by Albert Einstein in one of his Annus Mirabilis works. Even earlier such a problem was posed by Louis Bachelier in his thesis devoted to the theory of financial speculations in 1900. Nowadays the theory of random walks has proved useful in physics and chemistry (diffusion, reactions, mixing flows), economics, biology (from animal spread to motion of subcellular structures) and in many other disciplines. The random walk approach serves not only as a model of simple diffusion but of many complex sub- and super-diffusive transport processes as well. This book discusses the main variants of random walks and

gives the most important mathematical tools for their theoretical description.

First Steps in Random Walks: From Tools to Applications Review

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