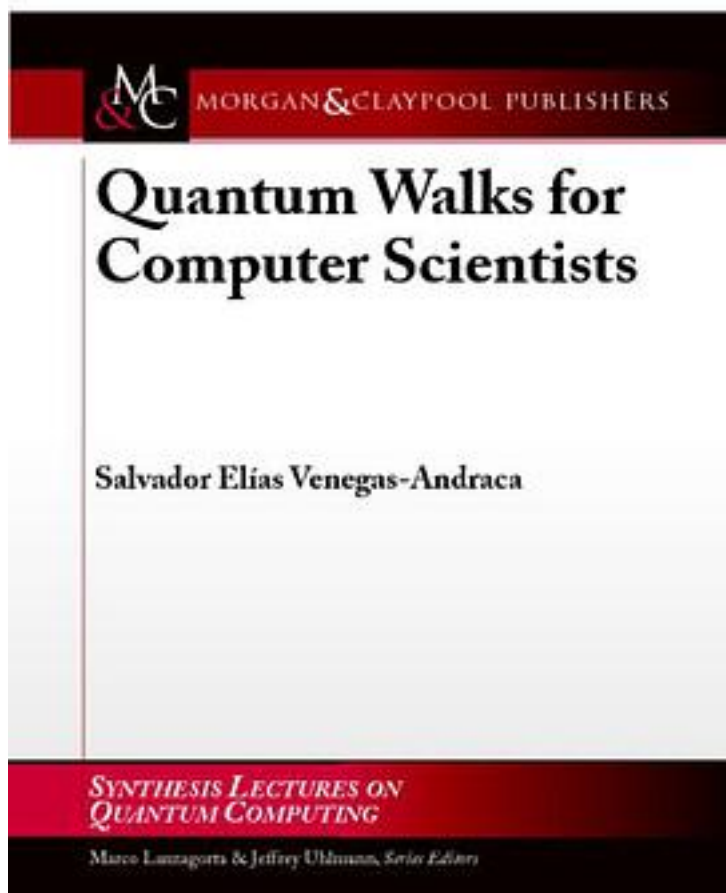# Quantum Walks for Computer Scientists

[Quantum Walks for Computer Scientists_下载链接1_](#)

著者:Venegas-Andraca, Salvador

出版者:

出版时间:2008-9

装帧:

isbn:9781598296563

Quantum computation, one of the latest joint ventures between physics and the theory of computation, is a scientific field whose main goals include the development of hardware and algorithms based on the quantum mechanical properties of those physical systems used to implement such algorithms. Solving difficult tasks (for

example, the Satisfiability Problem and other NP-complete problems) requires the development of sophisticated algorithms, many of which employ stochastic processes as their mathematical basis. Discrete random walks are a popular choice among those stochastic processes. Inspired on the success of discrete random walks in algorithm development, quantum walks, an emerging field of quantum computation, is a generalization of random walks into the quantum mechanical world. The purpose of this lecture is to provide a concise yet comprehensive introduction to quantum walks.

作者介绍:

目录:

[Quantum Walks for Computer Scientists_下载链接1_](#)

标签

评论

[Quantum Walks for Computer Scientists_下载链接1_](#)

书评

[Quantum Walks for Computer Scientists_下载链接1_](#)