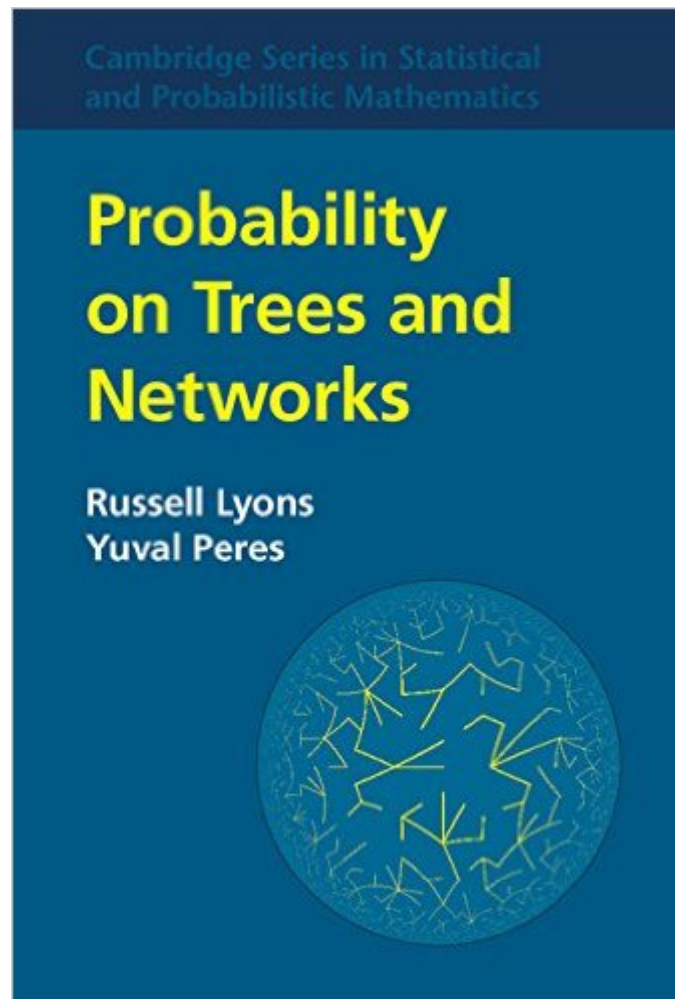# Probability On Trees And Networks (Cambridge Series In Statistical And Probabilistic Mathematics)

Synopsis

Starting around the late 1950s, several research communities began relating the geometry of graphs to stochastic processes on these graphs. This book, twenty years in the making, ties together research in the field, encompassing work on percolation, isoperimetric inequalities, eigenvalues, transition probabilities, and random walks. Written by two leading researchers, the text emphasizes intuition, while giving complete proofs and more than 850 exercises. Many recent developments, in which the authors have played a leading role, are discussed, including percolation on trees and Cayley graphs, uniform spanning forests, the mass-transport technique, and connections on random walks on graphs to embedding in Hilbert space. This state-of-the-art account of probability on networks will be indispensable for graduate students and researchers alike.

Book Information

Series: Cambridge Series in Statistical and Probabilistic Mathematics

Hardcover: 600 pages

Publisher: Cambridge University Press (November 30, 2016)

Language: English

ISBN-10: 1107160154

ISBN-13: 978-1107160156

Product Dimensions: 7 x 2.1 x 10 inches

Shipping Weight: 1.7 pounds (View shipping rates and policies)

Best Sellers Rank: #1,012,981 in Books (See Top 100 in Books)   #134 in Books > Science & Math > Mathematics > Applied > Graph Theory   #2681 in Books > Textbooks > Science & Mathematics > Mathematics > Statistics   #3907 in Books > Science & Math > Mathematics > Applied > Probability & Statistics

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