

Dynamical Systems on Networks

A Tutorial

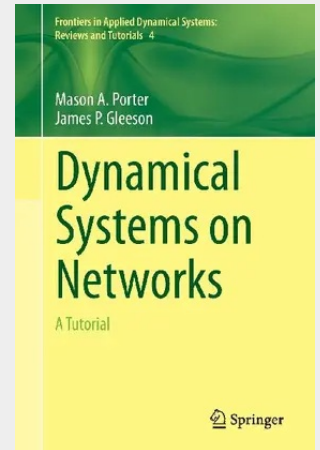
This volume is a tutorial for the study of dynamical systems on networks. It discusses both methodology and models, including spreading models for social and biological contagions. The authors focus especially on "simple" situations that are analytically tractable, because they are insightful and provide useful springboards for the study of more complicated scenarios.

This tutorial, which also includes key pointers to the literature, should be helpful for junior and senior undergraduate students, graduate students, and researchers from mathematics, physics, and engineering who seek to study dynamical systems on networks but who may not have prior experience with graph theory or networks.

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of Somerville College. James P. Gleeson is Professor of Industrial and Applied Mathematics, and co-Director of MACSI, at the University of Limerick, Ireland.

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42,79 €

39,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783319266404

Medium: Buch

ISBN: 978-3-319-26640-4

Verlag: Palgrave Macmillan

Erscheinungstermin: 11.04.2016

Sprache(n): Englisch

Auflage: 1. Auflage 2016

Serie: Frontiers in Applied Dynamical Systems: Reviews and Tutorials

Produktform: Kartoniert

Gewicht: 1591 g

Seiten: 80

Format (B x H): 155 x 235 mm

