

Humans have moved organisms around the world for centuries, but it is only relatively recently that invasion ecology has grown into a mainstream research field. This book examines both the spread and impact dynamics of invasive species, placing the science of invasion biology on a new, more rigorous, theoretical footing. Furthermore, it proposes a concept of adaptive networks as the foundation for future research. Biological invasions are considered not as simple actions of invaders and reactions of invaded ecosystems, but as co-evolving complex adaptive systems with emergent features of network complexity and invasibility.

Invasion Dynamics focuses on the ecology of invasive species and their impacts in recipient social-ecological systems. It not only discusses key advances and challenges within the traditional domain of invasion ecology, but introduces approaches, concepts, and insights from many other disciplines such as complexity science, systems science, and ecology more broadly. It will be of great value to invasion biologists analysing spread and/or impact dynamics as well as other ecologists interested in spread processes or habitat management.

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9780198745341

生物科学

分类码: Q95

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Cover image: Corneille Minnaar

OXFORD
UNIVERSITY PRESS

www.oup.com

ISBN 978-0-19-874534-1



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