



Principles of **Ecology**



Curtis Carson

Principles of Ecology

Edited by Curtis Carson

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Principles of Ecology

About the Book

Ecology is a branch of biology concerned with the study of interactions and interrelationships between organisms and their environment, as well as with other organisms. Ecosystems are vast systems of organisms, their communities, and the environmental factors that have an influence on these. Several processes control the flux of matter and energy through an environment, such as pedogenesis, nutrient cycling, primary production and niche construction. The study of ecology focuses on such processes, as well as ecological succession, distribution of organisms and biodiversity, among others. Ecosystems sustain life, regulate climate and produce economically crucial materials, such as biomass. The regulation of water filtration, erosion control, flood protection, global biogeochemical cycles, etc. is also sustained by the ecosystem. The book aims to shed light on some of the unexplored aspects of ecology. Some of the diverse topics covered in this book address the varied branches that fall under this category. It aims to serve as a resource guide for students and experts alike and contribute to the growth of the discipline.

About the Editor

Curtis Carson holds an M.S. degree in Ecology from the University of Georgia, United States of America. He is actively engaged in the researches focused on the successional development of ecosystems, role of ecology in city planning and ecological niche. Carson has written and edited 8 books in the field of ecology. He has been the recipient of two awards for his research work in the field of ecology.

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