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Sommario/riassunto	This book offers the first guide to landscape ecologists on the art and science of doing experiments, both observational and manipulative. How do you conduct an experiment when your study subject is as big as a landscape? Issues of scale, spatial heterogeneity and limitations on replication may challenge scientists seeking to carry out robust experiments in landscape ecology. Beginning with an overview of the history and philosophy of the scientific method, and tracing the development of experimental approaches in ecology broadly, the first half of the book discusses the broader issues of what makes a good experiment. Individual chapters describe unique aspects of landscape

ecology that present challenges to experimentation, with suggestions for solutions on issues of scale, and how to apply controls, randomization and adequate replication in a landscape setting. The second half of the book describes different kinds of landscape ecology experimental approaches including large-scale manipulations experimental model landscapes mesocosms and microcosms in silico experiments novel landscapes Each chapter describes the advantages and disadvantages of each approach, and identifies the types of landscape ecology concepts and questions that a research can address. Examples from around the world, in a myriad of different environments, help to illustrate the ideas in each chapter. Together with an annotated resources section, this book aims to stimulate ideas and inspire creativity for graduate students and early career researchers who want to conduct better experiments in landscape ecology.
