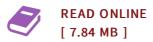




Maximum Entropy and Ecology: A Theory of Abundance, Distribution, and Energetics

By John Harte

Oxford University Press. Paperback. Book Condition: new. BRAND NEW, Maximum Entropy and Ecology: A Theory of Abundance, Distribution, and Energetics, John Harte, This pioneering graduate textbook provides readers with the concepts and practical tools required to understand the maximum entropy principle, and apply it to an understanding of ecological patterns. Rather than building and combining mechanistic models of ecosystems, the approach is grounded in information theory and the logic of inference. Paralleling the derivation of thermodynamics from the maximum entropy principle, the state variable theory of ecology developed in this book predicts realistic forms for all metrics of ecology that describe patterns in the distribution, abundance, and energetics of species over multiple spatial scales, a wide range of habitats, and diverse taxonomic groups. The first part of the book is foundational, discussing the nature of theory, the relationship of ecology to other sciences, and the concept of the logic of inference. Subsequent sections present the fundamentals of macroecology and of maximum information entropy, starting from first principles. The core of the book integrates these fundamental principles, leading to the derivation and testing of the predictions of the maximum entropy theory of ecology (METE). A final section broadens the book's perspective...



Reviews

Very useful to all class of individuals. It is amongst the most awesome publication i actually have read through. You will like just how the blogger create this pdf.

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This pdf is wonderful. This can be for anyone who statte there had not been a well worth studying. You are going to like just how the writer write this pdf.

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