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Over the past decade there has been considerable interest in the effects of atmospheric deposition on forest ecosystems. This volume summarizes the results of the Integrated Forest Study (IFS), one of the most

comprehensive research programs conducted. It involved intensive measurements of deposition and nutrient cycling at seventeen diverse forested sites in the United States, Canada, and Norway. The IFS is unique as an applied research project in its complete, ecosystem-level evaluation of nutrient budgets, including significant inputs, outputs, and internal fluxes. It is also noteworthy as a more basic investigation of ecosystem nutrient cycling because of its incorporation of state-of-the-art methods, such as quantifying dry and cloud water deposition. Most significantly, the IFS data was used to test several general hypotheses regarding atmospheric deposition and its effects. The data sets also allow for far-reaching conclusions because all sites were monitored over the same period using comparable instruments and standardized protocols. Statistics, big data, and machine learning for Clojure programmers About This Book Write code using Clojure to harness the power of your data Discover the libraries and frameworks that will help you succeed A practical guide to understanding how the Clojure programming language can be used to derive insights from data Who This Book Is For This book is aimed at developers who are already productive in Clojure but who are

overwhelmed by the breadth and depth of understanding required to be effective in the field of data science. Whether you're tasked with delivering a specific analytics project or simply suspect that you could be deriving more value from your data, this book will inspire you with the opportunities—and inform you of the risks—that exist in data of all shapes and sizes. What You Will Learn Perform hypothesis testing and understand feature selection and statistical significance to interpret your results with confidence Implement the core machine learning techniques of regression, classification, clustering and recommendation Understand the importance of the value of simple statistics and distributions in exploratory data analysis Scale algorithms to web-sized datasets efficiently using distributed programming models on Hadoop and Spark Apply suitable analytic approaches for text, graph, and time series data Interpret the terminology that you will encounter in technical papers Import libraries from other JVM languages such as Java and Scala Communicate your findings clearly and convincingly to nontechnical colleagues In Detail The term “data science” has been widely used to define this new profession that is expected to interpret vast datasets and translate them to improved decision-making and performance. Clojure is a powerful language that combines the interactivity of a scripting language with the speed of a compiled language. Together with its rich ecosystem of native libraries and an

extremely simple and consistent functional approach to data manipulation, which maps closely to mathematical formula, it is an ideal, practical, and flexible language to meet a data scientist's diverse needs. Taking you on a journey from simple summary statistics to sophisticated machine learning algorithms, this book shows how the Clojure programming language can be used to derive insights from data. Data scientists often forge a novel path, and you'll see how to make use of Clojure's Java interoperability capabilities to access libraries such as Mahout and Mlib for which Clojure wrappers don't yet exist. Even seasoned Clojure developers will develop a deeper appreciation for their language's flexibility! You'll learn how to apply statistical thinking to your own data and use Clojure to explore, analyze, and visualize it in a technically and statistically robust way. You can also use Incanter for local data processing and ClojureScript to present interactive visualisations and understand how distributed platforms such as Hadoop and Spark's MapReduce and GraphX's BSP solve the challenges of data analysis at scale, and how to explain algorithms using those programming models. Above all, by following the explanations in this book, you'll learn not just how to be effective using the current state-of-the-art methods in data science, but why such methods work so that you can continue to be productive as the field evolves into the future. Style and approach This is a practical guide to data science that teaches theory by

example through the libraries and frameworks accessible from the Clojure programming language. Reviews the nature and history of Missouri forests, private and public, and considers the status and prospects for ecological, watershed, and socioeconomic sustainability, and sustainable balance among timber growth, non-timber resources, harvest, and consumption. Discusses sustainable silviculture, including Pioneer Forest, and trends in demands, citizen attitudes, and policy development, with a case study on chip mills. Reviews mining laws and regulations and their application to mining in the western United States. Describes prospecting, exploration, mine development and operation, and reclamation factors. This monograph takes a fresh look at migration in light of the recent resurgence of interest in this topic within archaeology. The author develops a reliable approach for detecting and assessing the impact of migration based on conceptions of style in anthropology. From numerous ethnoarchaeological and ethnohistoric case studies, material culture attributes are isolated that tend to be associated only with the groups that produce them. Clark uses this approach to evaluate Puebloan migration into the Tonto Basin of east-central Arizona during the early Classic period (A.D. 1200-1325), focusing on a community that had been developing with substantial Hohokam influence prior to this interval. He identifies Puebloan enclaves in the indigenous settlements based on culturally

specific differences in the organization of domestic space and in technological styles reflected in wall construction and utilitarian ceramic manufacture. Puebloan migration was initially limited in scale, resulting in the co-residence of migrants and local groups within a single community. Once this co-residence settlement pattern is reconstructed, relations between the two groups are examined and the short-term and long-term impacts of migration are assessed. The early Classic period is

associated with the appearance of the Salado horizon in the Tonto Basin. The results of this research suggest that migration and co-residence was common throughout the basins and valleys in the region defined by the Salado horizon, although each local sequence relates a unique story. The methodological and theoretical implications of Clark's work extend well beyond the Salado and the Southwest and apply to any situation in which the scale and impact of prehistoric migration are contested. "This book covers the planning, design,

prototype testing, implementation, administration, and support of Windows 2003 and Active Directory as well as the security aspects of protecting an organization from external and internal attacks. Additionally, this book addresses the design and implementation of DNS, WINS, DHCP, and Global Catalog Servers that make up the backbone of an Active Directory implementation." -- back cover.

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