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Nota di contenuto	CONTEMPORARY BAYESIAN AND FREQUENTIST STATISTICAL RESEARCH METHODS FOR NATURAL RESOURCE SCIENTISTS; CONTENTS; Preface; 1 Introduction; 1.1 Introduction; 1.2 Three Case Studies; 1.2.1 Case Study 1: Maintenance of a Population Parameter above a Critical Threshold Level; 1.2.2 Case Study 2: Estimation of the Abundance of a Discrete Population; 1.2.3 Case Study 3: Habitat Selection Modeling of a Wildlife Population; 1.2.4 Case Studies Summary; 1.3 Overview of Some Solution Strategies; 1.3.1 Sample Surveys and Parameter Estimation; 1.3.2 Experiments and Hypothesis Testing 1.3.3 Multiple Linear Regression, Generalized Linear Modeling, and Model Selection 1.3.4 A Preview of Bayesian Statistical Inference; 1.3.5 A Preview of Model Selection Strategies and Information-Theoretic Criteria for Model Selection; 1.3.6 A Preview of Mixed-Effects Modeling; 1.4 Review: Principles of Project Management; 1.5 Applications; 1.6 S-Plus® and R Orientation I: Introduction; 1.6.1 Orientation I; 1.6.2 Simple Manipulations; 1.6.3 Data Structures; 1.6.4 Random Numbers; 1.6.5 Graphs; 1.6.6 Importing and Exporting Files; 1.6.7 Saving and Restoring Objects; 1.6.8 Directory Structures 1.6.9 Functions and Control Structures 1.6.10 Linear Regression

Analysis in S-Plus and R; 1.7 S-Plus and R Orientation II: Distributions; 1.7.1 Uniform Distribution; 1.7.2 Normal Distribution; 1.7.3 Poisson Distribution; 1.7.4 Binomial Distributions; 1.7.5 Simple Random Sampling; 1.8 S-Plus and R Orientation III: Estimation of Mean and Proportion, Sampling Error, and Confidence Intervals; 1.8.1 Estimation of Mean; 1.8.2 Estimation of Proportion; 1.9 S-Plus and R Orientation IV: Linear Regression; 1.10 Summary; Problems; 2 Bayesian Statistical Analysis I: Introduction; 2.1 Introduction  
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## Sommario/riassunto

The first all-inclusive introduction to modern statistical research methods in the natural resource sciences. The use of Bayesian statistical analysis has become increasingly important to natural resource scientists as a practical tool for solving various research problems. However, many important contemporary methods of applied statistics, such as generalized linear modeling, mixed-effects modeling, and Bayesian statistical analysis and inference, remain relatively unknown among researchers and practitioners in this field. Through its inclusive, hands-on treatment of real-world examples,

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