DESCRIPTION

Explore the classic and cutting-edge quantitative methods for understanding environmental science research

Based on the multifaceted 16-volume Encyclopedia of Statistical Sciences, Second Edition, Methods and Applications of Statistics in the Atmospheric and Earth Sciences offers guidance on the application of statistical methods for conducting research in these fields of study. With contributions from more than 100 leading experts in academia and industry, this volume combines key articles from the Encyclopedia with newly developed topics addressing some of the more critical issues, including pollution, droughts, and volcanic activity.

Readers will gain a thorough understanding of cutting-edge methods for the acquisition and analysis of data across a wide range of subject areas, from geophysics, geology, and biogeography to meteorology, forestry, agriculture, animal science, and ornithology. The book features new and updated content on quantitative methods and their use in understanding the latest topics in social research, including:

- Drought Analysis and Forecasting Childhood Obesity
- Ranked Set Sampling Methodology for Environmental Data
- Species Richness and Shared Species Richness
- Geographic Information Systems
Each contribution offers authoritative yet easily accessible coverage of statistical concepts. With updated references and discussion of emerging topics, readers are provided with the various statistical methods, techniques, strategies, and applications that are essential for tackling critical issues in environmental science research.

Featuring a balance of classical and cutting-edge methodologies, *Methods and Applications of Statistics in the Atmospheric and Earth Sciences* is an excellent resource for researchers, professionals, and students in the fields of sociology, psychology, philosophy, education, political science, and the related disciplines who would like to learn about the uses of statistics in gathering, reporting, and analyzing data.

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**ABOUT THE AUTHOR**

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Methods and Applications of Statistics

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