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Nota di contenuto	Introduction -- Spatiotemporal Analysis and Impacts Assessment of Agricultural Drought in China -- Materials and Methodology -- Spatial and Temporal Variations of SPI and SSI -- Multivariate Frequency Analysis of Drought Events Using Drought Indices and Copula Functions in China -- Study Area and Data Source -- Drought Indices and

Univariate Analysis -- Frequency Analysis Using 2-Variate Archimedean Copula -- Frequency Analysis Using 3-Variate Archimedean Copula -- Frequency Analysis Using Four-Variate Archimedean Copula -- Spatiotemporal Analysis and Impacts Assessment of Agricultural Drought in China -- Study Area and Data -- Drought Evolutions Over Different Land Cover Types -- The Response of Vegetation Phenology and Productivity to Extreme Climatic -- Drought Indices Performance for Predicting Agriculture Drought -- The Effects of Agricultural Drought on Crop Production -- Conclusions.

Sommario/riassunto

This book explores spatiotemporal analysis and impact assessment of agricultural drought in China and investigates the correlation coefficient between meteorological drought and agricultural drought. It then conducts multivariate frequency analysis of drought events using drought indices and copula functions. It aims to reveal spatiotemporal characteristics and impacts of agricultural drought in China both on vegetation phenology and productivity. The book assesses the performances of drought indices for better predicting multi-year droughts and return periods and drought risk assessment.