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Nota di contenuto	Preface -- Foreword (Gordon Rausser) -- Introduction (Siwa Msangi) -- Part I: Applied Methods for Agricultural Production and Sector Modeling -- Towards Econometric Mathematical Programming for Policy Analysis (Bruno Henry de Frahan) -- Soil and Crop Choice (Peter Berck and Lunyu Xie) -- Spatial Equilibrium, Imperfect Competition and Calibrating Models (Quirino Paris) -- Part II: Applied Methods for Water Resource Management -- Payment for Environmental Services: How Big Must Be the Check to Multi-Product Farmers? (Marcelo Torres de Oliveira and Richard E. Howitt) -- Optimal Allocation of Groundwater Resources: Managing Water Quantity and Quality (Qiuqiong Huang, Scott Rozelle, Richard E. Howitt, James E. Wilen) -- Managing Urban and Agricultural Water Demand in Northern China: The Case of Luancheng County, Hebei Province (Siwa Msangi) -- Part III: Application of

Information-Theoretic Methods -- Using Moment Constraints in GME Estimation (Richard E. Howitt and Siwa Msangi) -- Estimating Field-Level Rotations as Dynamic Cycles (Duncan MacEwan and Richard E. Howitt) -- Part IV: Using Quantitative Methods to Inform Decision-making in Agriculture and Resource Policy -- Water Into Wine and Cheese: Implications of Substitution and Trade for California's Perennial Water Woes (Daniel Sumner and Qian Yao Pan) -- Climate Policies as Water Policies (Kazim Konyar and George Frisvold) -- Enhancing Productivity and Market Access for Key Staples in the EAC Region: An Economic Analysis of Biophysical and Market Potential (Siwa Msangi, Kennedy Were, Bernard Musana, Joseph Mudiopo, Leonidas Dusengemungu, Lucas Tanui, Jean-Claude Muhutu, George Ayaga, Geophrey Kajiru, and Birungi Korutaro).

Sommario/riassunto

This book assesses recent developments in the analysis of agricultural policy and water resource management, and highlights the utility and theoretical rigor of quantitative methods for modeling agricultural production, market dynamics, and natural resource management. In diverse case studies of the intersection between agriculture, environmental quality and natural resource sustainability, the authors analyze economic behavior - both at aggregate as well as at individual agent-level - in order to highlight the practical implications for decision-makers dealing with environmental and agricultural policy. The volume also addresses the challenges of doing robust analysis with limited data, and discusses the appropriate empirical approaches that can be employed. The studies in this book were inspired by the work of Richard E. Howitt, Emeritus Professor of Agricultural Economics at the University of California at Davis, USA, whose career has focused on the application of robust empirical methods to address concrete policy problems. .
