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Nota di contenuto	Contributors; Preface; Foreword; 1 Stomatal Control of Transpiration: a Major Dilemma 100 Years Ago; 2 Stomata as Part of the Soil-Plant-Atmosphere Continuum; 3 Effects of Elevated CO2 Concentration on Stomatal Conductance and Respiration of Beech Leaves in Darkness; 4 Top-down Models and Flux Measurements are Complementary Methods of Estimating Carbon Sequestration by Forests: Illustrations using the 3-PG Model; 5 The Effects of Forests on Mesoscale Atmospheric Processes; 6 The Diurnal Cycle over Land 7 Medium- and Long-term Ecosystem Processes: Implications at the Forest-Atmosphere Interface; 8 A MAESTRO Retrospective; 9 Thermal Radiation, Canopy Temperature and Evaporation from Forest Canopies; 10 Forest-Air Exchange in Non-ideal Conditions: the Role of Horizontal Flux and its Divergence; 11 Review of Forest Evaporation1 Studies, Primarily in the United Kingdom; 12 Scaling the Estimate of Maximum Canopy Conductance from Patch to Region and Comparison of Aircraft Measurements; 13 Land Sinks: the Kyoto Process and Scientific Implications 14 Spatial and Temporal Assessment of Biospheric Carbon Fluxes at a

Continental Scale by Neural network Optimization; 15 Scaling Carbon Uptake from Leaves to Canopies: Insights from Two Forests with Contrasting Properties; 16 Links between Science and Forest Management, as Illustrated by a Model of Branch Development; 17 Thoughts on Forest Science; Index

Sommario/riassunto

Forest ecosystems grow at the interface between the land and the atmosphere. This book presents an overview of many topics that are of significance at this interface, starting at the scale of intra-leaf organelles, leaves and plants and ranging to higher levels of organization such as communities.
