Soil Respiration and the Environment

Description: The global environment is constantly changing and our planet is getting warmer at an unprecedented rate. The study of the carbon cycle, and soil respiration, is a very active area of research internationally because of its relationship to climate change. It is crucial for our understanding of ecosystem functions from plot levels to global scales. Although a great deal of literature on soil respiration has been accumulated in the past several years, the material has not yet been synthesized into one place until now. This book synthesizes the already published research findings and presents the fundamentals of this subject. Including information on global carbon cycling, climate changes, ecosystem productivity, crop production, and soil fertility, this book will be of interest to scientists, researchers, and students across many disciplines.

A key reference for the scientific community on global climate change, ecosystem studies, and soil ecology
Describes the myriad ways that soils respire and how this activity influences the environment
Covers a breadth of topics ranging from methodology to comparative analyses of different ecosystem types
The first existing "treatise" on the subject

Contents: 1 Introduction and Overview, 2 Importance and roles of soil respiration, 3 Components of soil respiration, 4 Controlling factors, 5 Comparative studies of soil respiration across ecosystems, 6 Responses to disturbance, 7 Methods of study, 8 Model integration and analysis, 9 Future research


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