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## Respiration in Aquatic Ecosystems

By -

Oxford University Press, United Kingdom, 2005. Paperback. Book Condition: New. 244 x 188 mm. Language: English Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Respiration represents the major area of ignorance in our understanding of the global carbon cycle. In spite of its obvious ecological and biogeochemical importance, most oceanographic and limnological textbooks invariably deal with respiration only superficially and as an extension of production and other processes. The objective of this book is to fill this gap and to provide the first comprehensive review of respiration in the major aquatic systems of the biosphere. The introductory chapters review the general importance of respiration in aquatic systems, and deal with respiration within four key biological components of aquatic systems: bacteria, algae, heterotrophic protists, and zooplankton. The aim of this first part is to provide the backbone for the analysis and interpretation of ecosystem-level respiration in a variety of aquatic environments. The central chapters of the book review respiration in major aquatic ecosystems including freshwater wetlands, lakes and rivers, estuaries, coastal and open ocean and pelagic ecosystems, as well as respiration in suboxic environments. For each major ecosystem, the corresponding chapter provides a synthesis of methods used to assess respiration, outlines the...



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-- **Brennan Koelpin**

*Comprehensive guide! Its this type of very good read through. It is actually writter in simple words and phrases rather than difficult to understand. It is extremely difficult to leave it before concluding, once you begin to read the book.*

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