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Nota di contenuto	Freshwater Algae; Contents; Preface to the First Edition; Preface to the Second Edition; Acknowledgements; 1 Introduction to Freshwater Algae; 1.1 General introduction; 1.1.1 Algae - an overview; 1.1.2 Algae as primary producers; 1.1.3 Freshwater environments; 1.1.4 Planktonic and benthic algae; 1.1.5 Size and shape; 1.2 Taxonomic variation - the major groups of algae; 1.2.1 Microscopical appearance; 1.2.2 Biochemistry and cell structure; 1.2.3 Molecular characterisation and identification; 1.3 Blue-green algae; 1.3.1 Cytology; 1.3.2 Morphological and taxonomic diversity; 1.3.3 Ecology; 1.3.4 Blue-green algae as bioindicators; 1.4 Green algae; 1.4.1 Cytology; 1.4.2 Morphological diversity; 1.4.3 Ecology; 1.4.4 Green algae as bioindicators; 1.5 Euglenoids; 1.5.1 Cytology; 1.5.2 Morphological diversity; 1.5.3 Ecology; 1.5.4 Euglenoids as bioindicators; 1.6 Yellow-green algae; 1.6.1 Cytology; 1.6.2 Morphological diversity; 1.6.3 Ecology; 1.6.4 Yellow-green algae as bioindicators; 1.7 Dinoflagellates; 1.7.1 Cytology; 1.7.2 Morphological diversity; 1.7.3 Ecology; 1.8 Cryptomonads; 1.8.1 Cytology; 1.8.2 Comparison with euglenoid algae;

1.8.3 Biodiversity; 1.8.4 Ecology
 1.8.5 Cryptomonads as bioindicators
 1.9 Chrysophytes; 1.9.1 Cytology;
 1.9.2 Morphological diversity; 1.9.3 Ecology; 1.9.4 Chrysophytes as
 bioindicators; 1.10 Diatoms; 1.10.1 Cytology; 1.10.2 Morphological
 diversity; 1.10.3 Ecology; 1.10.4 Diatoms as bioindicators; 1.11 Red
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 2.3 Phytoplankton biomass
 2.3.1 Turbidity; 2.3.2 Dry weight and ash-
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 2.7.1 Benthic-pelagic coupling; 2.7.2
 Benthic algae and sediment stability; 2.7.3 Invertebrate grazing of
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 2.9.2 Biomass; 2.9.3 Taxonomic composition; 2.9.4 Matrix structure;
 2.10 Periphyton - algal mats; 2.10.1 Inorganic substratum; 2.10.2 Plant
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 3.1.1 Biomarkers and bioindicators; 3.1.2 Characteristics of
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 3.1.3 Biological monitoring versus chemical measurements

Sommario/riassunto

This is the second edition of Freshwater Algae, the popular guide to temperate freshwater algae. This book uniquely combines practical information on sampling and experimental techniques with an explanation of basic algal taxonomy plus a key to identify the more frequently occurring organisms. Fully revised, it describes major bioindicator species in relation to key environmental parameters and their implications for aquatic management. This second edition includes the same clear writing style as the first edition to provide an easily accessible source of information on algae within standing

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