Record Nr. UNINA9910831186003321 The lakes handbook. Volume 1 Limnology and limnetic ecology **Titolo** [[electronic resource] /] / edited by P.E. O'Sullivan and C.S. Reynolds Pubbl/distr/stampa Malden, MA, : Blackwell, c2004 **ISBN** 1-281-31270-3 9786611312701 0-470-99926-8 0-470-99927-6 1-4051-2909-3 Descrizione fisica 1 online resource (710 p.) Altri autori (Persone) O'SullivanP. E (Patrick E.) ReynoldsColin S Disciplina 551.482 Soggetti Limnology Lake ecology Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and indexes. Nota di contenuto The Lakes Handbook VOLUME 1 LIMNOLOGY AND LIMNETIC ECOLOGY: Contents; List of Contributors; 1 LAKES, LIMNOLOGY AND LIMNETIC ECOLOGY: TOWARDS A NEW SYNTHESIS; 2 THE ORIGIN OF LAKE BASINS; 3 THE HYDROLOGY OF LAKES: 4 CHEMICAL PROCESSES REGULATING THE COMPOSITION OF LAKE WATERS; 5 PHYSICAL PROPERTIES OF WATER RELEVANT TO LIMNOLOGY AND LIMNETIC ECOLOGY; 6 THE MOTION OF LAKE WATERS; 7 REGULATORY IMPACTS OF HUMIC SUBSTANCES IN LAKES; 8 SEDIMENTATION AND LAKE SEDIMENT FORMATION; 9 ORGANISATION AND ENERGETIC PARTITIONING OF LIMNETIC COMMUNITIES; 10 PHYTOPLANKTON; 11 AQUATIC PLANTS AND LAKE ECOSYSTEMS 12 BENTHIC INVERTEBRATES13 PELAGIC MICROBES - PROTOZOA AND THE MICROBIAL FOOD WEB; 14 ZOOPLANKTON; 15 FISH POPULATION ECOLOGY: 16 FISH COMMUNITY ECOLOGY: 17 SELF-REGULATION OF LIMNETIC ECOSYSTEMS; 18 PALAEOLIMNOLOGY; Index Sommario/riassunto Continuing concern about water supply and quality, ecosystem

sustainability and restoration demands that the modern approach to

the management of lakes and reservoirs should be based on a sound understanding of the application of the scientific and ecological principles that underlie freshwater processes. The Lakes Handbook provides an up-to-date overview of the application of ecologically sound approaches, methods and tools using experience gained around the world for an understanding of lakes and their management. Volume one of the Handbook addresses the physical and biological