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Nota di contenuto	On the Quantification of Habitability: Current Approaches -- The Dynamical Systems Approach to Modeling: the Universe as a Case Study.-Enlarging simple ecological models: subspecies, hidden symmetries and their implications -- Multi-agent question-answering system -- Seeding programming -- Schwarzschild Metric Disturbed by the Accelerated Expansion of the Universe -- Potential changes on anammox activity after Chicxulub asteroid impact -- Quantification of phytoplankton primary habitability in the Gulf of Ana María, Cuba -- On the Subaquatic Light Fields in Lakes of Southern Chile and their Photosynthetic Potential -- Coarse detrital deposits from hurricane Wilma on the western coast of Cojimar, Havana, Cuba -- Mathematical modeling of phosphorus dynamics in aquatic ecosystems -- Mozambican Adsorbents for Zinc (II) Removal in Aqueous Solutions -- Difusivity of Cd (II) Ions in Several Porous Adsorbents -- Increasing

tolerance plants to heavy metals -- Increasing tolerance *Agrostis stolonifera*, *Festuca rubra*, *Brachycome iberidifolia*, *Chrysanthemum carinatum* to copper -- Environmentally Sustainable Management of Rice Cultivating Zones in Ukraine -- Development of a new formulation for Onychomycosis treatment using Furvina® as an Active Pharmaceutical Ingredient -- Multipurpose sensor network for electromagnetic radiation monitoring -- Tilt and orientation of a flat solar collector to capture optimal solar irradiation in Chilean latitudes.

Sommario/riassunto

This book features a selection of works presented in the 2nd International Conference on BioGeoSciences in a unified framework. First, it describes several theoretical tools for the mathematical modelling of natural processes and environments, such as Quantitative Habitability Theory, dynamical systems and artificial intelligence. It then outlines applications to the broad and multifaceted area of the natural sciences and environmental engineering. This highly interdisciplinary book includes case studies with a wide range of spatio-temporal scales: from ecosystem- to astrobiological-cosmological scales.
