Record Nr. UNINA9910144392603321 Biophysical chemistry of fractal structures and processes in **Titolo** environmental systems [[electronic resource] /] / edited by Nicola Senesi, Kevin J. Wilkinson Chichester, West Sussex, England; ; Hoboken, NJ, : Wiley, 2008 Pubbl/distr/stampa **ISBN** 0-470-51119-2 1-281-84034-3 9786611840341 0-470-51120-6 Descrizione fisica 1 online resource (341 p.) Collana IUPAC Series on analytical and physical chemistry of environmental systems;; v. 11 Altri autori (Persone) SenesiN (Nicola) WilkinsonKevin J 571.49 Disciplina 577 577.14 Soggetti Physical biochemistry Fractals Environmental chemistry Electronic books. 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 index. Biophysical Chemistry of Fractal Structures and Processes in Nota di contenuto Environmental Systems; Contents; About the Editors; List of Contributors; Series Preface; Preface; 1 Introduction to the Study of Environmental Fractals; 2 Introduction to Fractal Geometry, Fragmentation Processes and Multifractal Measures: Theory and Operational Aspects of their Application to Natural Systems; 3 Methods and Techniques for Fractal Analysis of Environmental Systems; 4 Fractal Structures and Mechanisms in Coagulation/Flocculation Processes in **Environmental Systems: Theoretical Aspects** 5 Fractal Mechanisms in Coagulation/Flocculation Processes in

> Environmental Systems6 Fractal Approach to Adsorption/Desorption Processes on Environmental Surfaces; 7 Applications of Fractals in the

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Study of Humic Materials; 8 Fractal Geometry and Microorganisms in the Environment; 9 Fractal Geometry of Aerosol Particles; Index

This book aims to provide the scientific community with a novel and valuable approach based on fractal geometry concepts on the important properties and processes of diverse environmental systems. The interpretation of complex environmental systems using modern fractal approaches is compared and contrasted with the more classical approaches. The book will provide the fundamental knowledge necessary for solving practical environmental problems. Furthermore, it examines how the fractal approach has been applied in order to understand the structure and reactivity of natural, environmental syst