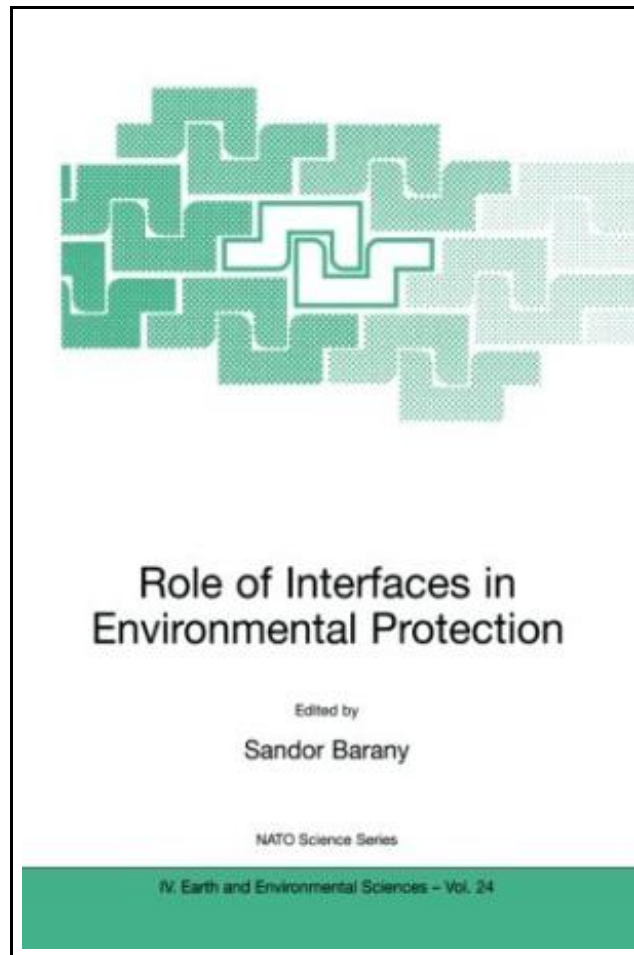


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Book Condition: New. Publisher/Verlag: Springer Netherlands | Proceedings of the NATO Advanced Research Workshop, Miskolc, Hungary from 27 to 30 May 2002 | The NATO Advanced Research Workshop "Role of Interfaces in Environmental Protection" has been held on May 27-30, 2002 in Miskolc, Hungary, under leadership of co-directors Prof Sandor Barany from the University of Miskolc, Hungary, and Prof Nataliya Klymenko, National Academy of Sciences of Ukraine. The objective of the ARW was to highlight colloidal and biocolloidal aspects of environmental pollution and technologies to monitor, remediate, abate and prevent pollution. It is known that the solution of majority of environmental problems is closely connected with phenomena at the interfaces. The behaviour, transport of dispersed particles in the environment, the main phase separation methods in water treatment, purification of liquids, aerosols removal, many soil remediation processes as well as the methods of protection of human organisms from hazardous matters, are based on concepts of colloid chemistry, i.e. properties of interfaces and their behaviour in different media. Examples of these methods are: filtration, ultrafiltration, flotation, coagulation, hetero-coagulation and flocculation, adsorption, adhesion of micro-organisms to surfaces, membrane separation methods, etc. A very important and special aspect of the topic is the human protection using colloid-chemical approaches, i.e. the adsorption, aggregation and adagulation properties of different materials. Examples are: adsorption of hazardous organic materials, drugs, heavy metals and radionuclides on activated carbon, silica, cellulose derivatives, etc. | Fundamentals: 1. New Horizons in Purification of Liquids: Novel Colloidal and Interfacial Strategies to Remove Hazardous Molecules, Viruses and Other Microorganisms from Water and Blood; D. Shah. 2. Chemistry and Collisions in Natural and Technological Aquatic Environments; C. O'Neil; Melia. 3. Polymer-supported Subcolloidal Particles: Characterisation and Environmental Application; L. Cumbal, et al. 4. The Lyophilic Structure-mechanical Barrier as a Factor of Dispersion Strong Stabilisation; E.D. Shchukin, et al....



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