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| 1. Record Nr. | UNINA9910808642103321 |
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| Titolo | Nonlinearity of colloid systems : oxyhydrate systems // Yuri I. Sucharev |
| Pubbl/distr/stampa | Stafa-Zuerich ; ; Enfield, New Hampshire : , : Trans Tech Publications Limited, , [2008] ©2008 |
| ISBN | 3-03813-243-8 |
| Descrizione fisica | 1 online resource (438 p.) |
| Collana | Materials science foundations, , 1422-3597 ; ; volumes 34-35 |
| Disciplina | 541/.345 |
| Soggetti | Colloids Metallic oxides Hydroxides |
| 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 (pages [423]-434). |
| Nota di contenuto | Genesis of gel oxyhydrate systems of d- and f-elements in the course of their formation second section's title -- Periodic phenomena of the organization of gel oxyhydrate systems -- Dilatancy effect as a specific property of periodicity of gel oxyhydrates -- Liesegang operator as a reflection of nonlinear properties of oxyhydrate gel systems -- Mesophase-like behaviour of gel systems -- The chromatic effect of some oxyhydrate gels -- Experimental studies of optical properties of gels. Observed chromatic effect -- The phisico-chemical nature of polarisation of living gels of heavy metals oxyhydrates -- The influence of electric, magnetic and electromagnetic fields on the structurization processes of Yttrium Oxyhydrate -- Nonlinear sorption properties of oxyhydrate -- Quantum chemical study of the structural models of Zirconium Oxyhydrate -- In place of a conclusion. |
| Sommario/riassunto | The present monograph is the first systematic study of the non-linear characteristic of gel oxy-hydrate systems involving d- and f- elements. These are the oxyhydrates of rare-earth elements and oxides - hydroxides of d- elements (zirconium, niobium, titanium, etc.) The non-linearity of these gel systems introduces fundamental peculiarities into their structure and, consequently, their properties. The polymer-conformational diversity of energetically congenial gel fragments, |

which continuously transform under the effect of, for instance, system
dissipation heat, is central to the author's hy
