



Monitoring of environmental factors in a radioactive polluted area in Romania

By Maria Toader

GRIN Verlag Jul 2014, 2014. Taschenbuch. Book Condition: Neu. 211x27x7 mm. This item is printed on demand - Print on Demand Neuware - Project Report from the year 1998 in the subject Physics - Nuclear Physics, Molecular Physics, Solid State Physics, grade: -, , language: English, abstract: Within the last years, a great deal of interest was focused on studies of environmental pollution, and particularly on the pollution levels near fertilisers plants, with the possible the consequences for the health of the population living in those areas. The preparation of the phosphate fertilisers, has the unfortunate potential for environmental pollution. This is due to the radioactive content of the phosphatic rocks used as prime matter for fertilisers. The radioactivity present in phosphate rocks is mainly caused by the daughter products of U-238. In fact, natural uranium can substitute for calcium in the phosphate rock structure and, over a period of time, accumulate in the phosphate reserves. The behaviour of U-238 and Ra-226 (the principal contributors of radioactivity in phosphate rock) could be interpreted as follows: Ra-226 is precipitated with the solid phase (phosphogypsum) as insoluble radium sulphate, while U-238 remains in the liquid phase, as a uranyl complex. The presence...



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Reviews

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