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Synthesis of radiation-resistant thin-film coatings

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This paper considers the technology of synthesizing thin-film coatings based on compounds with different elemental compositions by the electrochemical deposition. The structural features of the obtained coatings were analyzed using SEM and X-ray diffraction methods, and their chemical composition was studied by the EDS. There was the dependence of the physicochemical characteristics of samples on the synthesis conditions. The possibilities of using these thin-film coatings as radiation-resistant protective screens for the aerospace industry were discussed.

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