

The effect of the substrate temperature on the parameters of aluminum oxide films during electron beam evaporation of aluminum in an oxygen atmosphere

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Experimental results of measuring the parameters of aluminum oxide films deposited by electron beam evaporation of aluminum in oxygen at different substrate temperatures are presented. It is shown that the nature of the temperature effect is determined by the ratio of oxygen pressure and the film deposition rate.

Keywords: fore-vacuum electron source, electron beam evaporation of aluminum, oxygen-containing medium, reaction of aluminum with oxygen, aluminum oxide films.

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