

ABSTRACT

Attestation bachelor work: 77 pages, 29 figures, 7 tables, 35 literature sources, 3 supplement.

The object of research: effects of annealing on structural and phase composition of W / Cu thin films.

Subject of research: structural and phase transformations of W/Cu bilayer structure under the vacuum annealing.

The purpose of research: to investigate and describe structural and phase transformations in bilayer W / Cu structure under the vacuum annealing.

Experimental methods: analysis of the microstructure, electron diffraction data, specific resistance us temperature measurements.

The results of research: The research found the time and temperature stability of the system during the annealing in vacuum at a temperature of 293 - 600 K for 15 minutes.

Field of application: obtained results have practical importance for wideranging contact set in different application microdevices.

ANOSCALED FILM COMPOSITIONS, RESEARCH, TUNGSTEN,
COPPER, STRUCTURE AND PHASE TRANSFORMATION, ANALYSIS,
ELECTRON MICROSCOPY, ELECTRON DIFFRACTION DATA, SPECIFIC
RESISTANCE US TEMPERATURE MEASUREMENTS.