

ABSTRACT

Attestation bachelor work: 83 pages, 26 figures, 10 tables, 51 literature sources.

The object of research: Nickel - Tantalum binary composition.

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

The purpose of research: investigation of phase and structure transformation in bilayer Ta/Ni structure under the vacuum annealing influence.

Experimental methods: thermal vacuum deposition, heat treatment (annealing), electronography, microstructure analysis, Secondary ion mass spectrometry (SIMS).

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

ANOSCALED FILM COMPOSITIONS, RESEARCH, TANTALUM, NICKEL,
ENVIRONMENT, STRUCTURE AND PHASE TRANSFORMATION,
ANALYSIS