

## Abstract

Theme: "Growth of large single profiled crystals of tungsten using additive technologies"

Course work includes 37 pages and 9 units of graphic material.

The reasons and conditions of nucleation, possible defects, their causes and influence on the crystal have been identified. This work examined several ways of growing single crystals of refractory material, their advantages and disadvantages. For subsequent studies selected plasma-induction method (additive technology). The purpose of research is to establish the maximum speed of growing a single crystal of tungsten. According to methodology, research is experimental in nature.