

Abstract

Bachelor's degree project entitled "Automation System Generator process for industrial production of acetylene carbide under the scheme in the water " contains an explanatory note in volume 117 pages, 1 sheets of drawings A1 format and 5 sheets of drawings A2.

Explanatory Note contains 36 figures, 5 tables, 3 addition and 24 references.

In sections of the explanatory note the analysis of the process of production; designed automatic control system; developed a mathematical model of static and dynamic modes of acetylene generator; regulator settings made in accordance with technological requirements driving this process; proposed cascade system temperature control lime generator based on modern microprocessor controllers MICROL; calculations of labor protection in the conduct of the process of production of acetylene.

Keywords: automation, acetylene generator, process, facility management, the scheme of automation, control and regulation, alarm and locking system emergency protection, measurement, transfer function, transition process, automatic regulator optimization criterion, algorithm optimization, security and safety .