

Annotation

Theme: "Based on a phased array ultrasonic defectoscope for the weld joints inspection"

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A diploma project contains: Pages - 85, Tables - 9, Pictures – 45, List of literature - 8 definitions.

The purpose of this project is creation of the ultrasonic system for monitoring welds oil-based phased array.

The main purpose of this theme, ground of control method is considered in the first chapter. On the basis of existing echo systems proposed structural scheme which provide the main technical requirements.

In the second section, a series of calculations.

In the third section was designed functional circuit.

The fourth section is devoted to the calculation and selection of units electrical circuit.

In the fifth chapter introduces manufacturing technology sensor.

The sixth chapter - economic.

Seventh chapter - labor.

Keywords: ultrasound, defectoscope, phased array, welded connection.