

Abstract

This diploma project consists of 68 pages, 35 illustrations, 54 formulas, 12 literary sources.

Key words: Measuring moisture content, optical moisture meter, optical methods of non-destructive testing, Moisture meter.

In the diploma project the research of different methods of control of tissue moisture was conducted.

Structural and functional diagrams are made. Based on the drawings, a principal scheme was also developed.

As a result of the study, the method of radiation passing through the OK was selected for further research and development of the device.

The **purpose of the work** is to study the methods of measuring moisture. Choosing a method for controlling all OK and developing a device design.

The **object of the study** methods for measuring the moisture content of tissues

Scientific novelty - The device is designed in such a way that we can control all object of control with a sufficiently high accuracy