Remote Assessment of Fruit quality using impedance Spectrometry and Fiber Optic Technique.

Abstract

This paper deals with the theory, design, fabrication and testing of a system developed for the remote testing of the quality of the fruits using Impedance spectrometry, electronic circuits to covert impedance to voltage, fiber optic transmission system and microcontroller for display with intelligence. This technique is designed in such a way that the value displayed by LCD is equal to the resistance of the fruit .The resistance so measured may characterize the fruit condition. The basic sensor is the probe system developed under this project which helps in the measurement of impedance non-invasively. Tests have been conducted in a laboratory by taking fresh fruits, and data obtained on a group of fruits is included.

Authors: Basem Abu Izneid , Miloud Souiyah., M.I.Fadhel, and Malek Ali, (2012), Remote Assessment of Fruit quality using impedance Spectrometry and Fiber Optic Technique, The 3rd International Biotechnology and Biodiversity Conference & Exhibition ,JOHOR, Malaysia, Jun 06-09, 2012.

https://scholar.google.com/scholar?q=Remote+Assessment+of+Fruit+quality+Using+impedance+Spectrometry+and+Fiber+Optic+Technique.+The+3rd+International&hl=ar&as_sdt=0&as_vis=1&oi=scholart