

ABSTRACT

Capacitance on a object is affected by the surface area of the plate and the distance between the plates. In this study, the measurement of the capacitance are harnessed by the changes of censor position. The different position of censor obtained from the test object's position so as to get a different measurement methods. Method of measurement obtained are the “point-point”, the “field-field”, and the “field-point”. Unregular object that used are packam pear and harum manis mango. The research results is on that change of censor position is affect the value of the capacitance. It is proven in the “field-field” measurement methods. The “field-point” measurement methods is considered proper method because of accordance with the concept of capacitance formulas i.e. the smaller the distance between the plates, the greater the capacitance value is generated. So the “field-point” method is used as a measurement method on testing the level of maturity of the harum manis mango. Determination of the level of maturity can be known through the measurement of the value of the capacitance using the field, point method but the results are uncertain because of there is overlap in the values of the capacitance.

Keywords: measurement, capacitance, plate’s position, irregular, fruit maturity