

# MONITORING OF WATER CONTENT IN BUILDING MATERIALS USING A WIRELESS PASSIVE SENSOR



A completely new approach to design passive wireless sensors is presented. The whole LC sensor is made in one conductive layer and there is no need for any post-soldering process or adding extra conductive layers. This simplifies the fabrication and measurement process as well as reduces the sensor's ultimate cost.

Apart from the new sensor design, we also present the application of this wireless, passive, resonant-circuit for monitoring of water content in building materials, clay brick and autoclaved aerated concrete block, which are widely used in civil engineering

## The innovative design of the wireless sensor

