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Abstract: Due to the nowadays demanding for the environmental concerns and the growing importance of the pollution reduction for a sustained development, the water quality monitoring it's very important and useful to study the physical and chemical characteristics of all kind of water and essential to understand the needs to protect and recover the quality of one element which is vital to all of us and also all the beings who surround us.

Published in: 2012 International Conference and Exposition on Electrical and Power Engineering

Date of Conference: 25-27 Oct. 2012 INSPEC Accession Number: 13326191

Date Added to IEEE Xplore: 19 February 2013 DOI: 10.1109/ICEPE.2012.6463829

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I. Introduction

Nowadays is reported the existence of commercial water quality measurement systems for industrial or laboratory application which are many times expensive individual instruments with high accuracy or multiparametric devices also of high economical cost which go far

beyond the required accuracy to making common measures in rivers, lakes or even oceans. For the preliminary detection of changes in the quality of water, a less accurate system is many times enough, and to the desired application of measure the electrical conductivity, temperature and turbidity or even more variables, it is nice to find low cost solutions with accuracy enough. Through the measurements of these variables we can detect changes in water environments and study if the causes of those modifications are natural or not like in the case of pollution.

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