

Dynamic Measurements and Dynamically-Functioning Objects- Time Is to Look at Reality

G. Abramchuk¹, K. Abramchuk
¹Expert, Consultant, george.abramchuk@sympatico.ca

Abstract- It is shown that many dynamic tests and measurement technologies base on a changing measurement equation and that internal and external disturbances may change the dynamic functional of the same object and that the reaction of measurement transducer (measurement channel) changes not only in dependence on type of loads. The reasons are given which cause methodical metering errors and make it difficult to build idealized smart sensing and intelligent systems

Index terms: ‘bad’ posed problems, dynamic measurements, non-linear and chaotic dynamic, metering dynamic errors