



## Virtual Instrument as a Tool for Teaching Power Quality

V. Dimcev, Z. Kokolanski, C. Gavrovski, M. Srbinovska

Faculty of Electrical Engineering and Information Technologies  
Karpos II, bb, Skopje (Republic of Macedonia)  
Phone number: +00389 30 99 110, Fax number: +00389 30 64 262  
e-mail: vladim@feit.ukim.edu.mk

**Abstract.** The course(s) in the field of power quality (PQ) for postgraduate even for undergraduate curriculums in power engineering is becoming necessary. The importance of this field and general public awareness of the subject is growing. Teaching and presenting this complex field to the students, which by its nature is multidisciplinary between various branches in electrical engineering, is not an easy task. The objective of this paper is to propose modern approach for teaching the PQ using low cost data acquisition cards.

### Key words

Power quality parameters, flicker, sampling theorem, data acquisition cards, virtual instrument.

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