OTTO VON GUERICKE UNIVERSITÄT MAGDEBURG

CHAIR OF ELECTROMAGNETIC COMPATIBILITY

MT Setup and optimisation of a test system for power quality analysis #PRAC #PQ

Background and problem: The percentage of nonlinear equipment, which considerably influences the power quality in distribution networks, is continuously increasing. In critical cases the devices cause unwanted operating states in the network. W the help of measurements, the influence of such devices can be recorded and evaluated.
A PC-based measurement system allows not only the correct recording, digitalization and storage but also an automated analys as well as presentation and documentation of the measurement results.

Task: Within the scope of this work a test system is to build up, which allows the analysis of defined power quality parameters of different devices. The separate tasks within the measurement cycles are controlled by a measurement program. The computer controls the communication within the measurement system. The functionality is to be shown via test measurements and to be documented in detail.

Previous Knowledge: MATLAB, fundamentals of measurement technology

Imparted Knowledge: Power quality analysis, communication of measurement systems, detailed knowledge of MATLAB

Supervisor › M. Sc. Benjamin Hoepfner (https://lsf.ovgu.de/qislsf/rds?state=verpublish&status=init&vmfile=no&moduleCall=webInfo&publishConfFile=webInfoPerson&publishSubDir=personal&keep=y&purge=y&personal.pid=825)

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