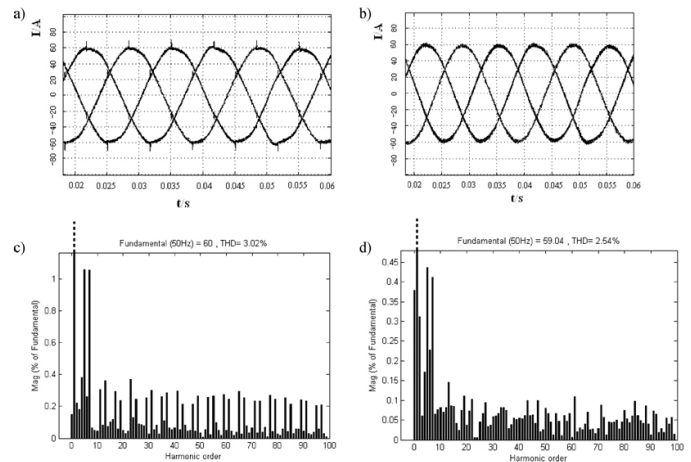




## 07WA166 The improvement of compensating current generation algorithms in active power filtering

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The paper deals with measurement and control aspects of active power filtering in ship systems. A main focus of the paper will be concentrated on the analysis of the ways of improvement of compensating current generation algorithms. Two aspects of improvement will be discussed: a choice of an appropriate algorithm and an assessment of the quality of compensation by analysis of resulting waveform distortions on power supply side.

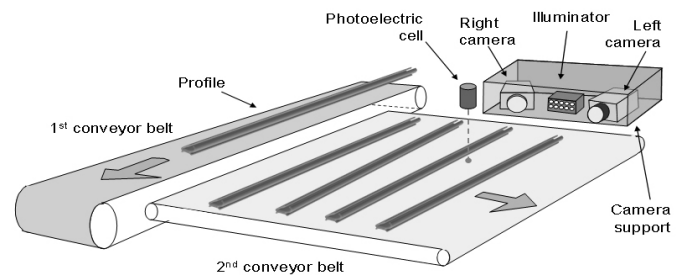


**Network current waveform and its harmonic analysis before (a, c) optimization and after optimization (b, d)**

## 08SW051 Contactless measurements for on line quality monitoring in rubber extrusion processes

Giuseppe Di Leo<sup>67</sup>, Consolatina Liguori<sup>67</sup>, Alfredo Paolillo<sup>67</sup>, Antonio Pietrosanto<sup>67</sup>

This paper is concerned with the topic of contactless measurements for industrial applications. In particular, it presents the case of some vision-based systems made by the authors expressly for the measurement of geometric and/or chromatic parameters of rubber profiles for the automotive industry. After a brief description of the extrusion process, at first a stereo vision system for the on-line measurement of the dimensional characteristics of the profile transversal section is described in all its main components and features.



**The hardware architecture of the measurement station.**