

Measurement uncertainty of power measurement (arbitrary waveforms)

- ▶ Applying the Gaussian error propagation to $P = \frac{1}{T} \cdot \int_T p(t) dt$ is an analytical challenge ⚡
- ▶ Practical implementation of active power calculation on measuring devices is discrete anyway

$$P = \frac{1}{N} \cdot \sum_{k=1}^N u_k \cdot i_k$$

- ▶ Max. Measurement error [4,6]: $\Delta P = \frac{1}{N} \cdot \sum_{k=1}^N |i_k \cdot \Delta u_k| + \frac{1}{N} \cdot \sum_{k=1}^N |u_k \cdot \Delta i_k|$

- ▶ MU [4,6]: $\delta P = \sqrt{\frac{1}{N^2} \cdot \left(\sum_{k=1}^N (i_k \cdot \delta u_k)^2 + \sum_{k=1}^N (u_k \cdot \delta i_k)^2 \right)}$

- ▶ Suitable method for dynamic processes/transients
- ▶ Bandwidth must be considered in addition to the error propagation when estimating the MU

Mathematics Of Uncertainty Mathematics Of Uncertainty

Shi Jin, Lorenzo Pareschi



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 $2\text{KClO}_3 \rightarrow 2\text{KCl} + 3\text{O}_2$
 $2\text{NaCl} + \text{F}_2 \rightarrow 2\text{NaF} + \text{Cl}_2$
 $2\text{H}_2\text{O} + 5\text{C} \rightarrow 2\text{H}_2\text{O} + 5\text{C}$
 $\text{Pb} + \text{OH}^- \rightarrow 2\text{HCl} + 2\text{H}_2\text{O} + 1\text{PbCl}_2$
 $2\text{Al} + 3\text{K}_2\text{SO}_4 \rightarrow 4\text{KBr} + 1\text{Al}_2\text{SO}_4 + 3\text{H}_2$
 $\text{CH}_4 + 2\text{O}_2 \rightarrow 1\text{CO}_2 + 2\text{H}_2\text{O}$
 $8\text{C}_3\text{H}_8 + 5\text{O}_2 \rightarrow 3\text{CO}_2 + 4\text{H}_2\text{O}$

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 $1\text{O}_2 + 3\text{HNO}_3 \rightarrow 2\text{H}_2\text{O} + 2\text{O}_3 + 3\text{H}_2\text{O}$
 $2\text{H}_2\text{O} + 2\text{H}_2\text{O} + 4\text{RbH} + 2\text{H}_2\text{O} + \text{RbOH} + 2\text{H}_2\text{Cl} + 2\text{KBr} + \text{KCl} + \text{Br}_2 + 6\text{N}_2 + 2\text{H}_2 + \text{NH}_3 + 7\text{N}_2\text{F}_6 + 3\text{Ca} + \text{Nd} + \text{CaF}_2 + 8\text{CH}_4 + 2\text{H}_2\text{O} + \text{CO}_2 + 9\text{C}_2\text{H}_5\text{OH}$

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 $\text{Pb} + \text{OH}^- \rightarrow 2\text{HCl} + 2\text{H}_2\text{O} + 1\text{PbCl}_2$
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 $2\text{Fe} + 2\text{O}_3 \rightarrow 2\text{FeO} + 3\text{H}_2\text{SO}_4$
 $1\text{Fe} + 2\text{SO}_4 + 3\text{d} + 1\text{C}_4\text{H}_6\text{O}_3 + 1\text{H}_2\text{O} + 2\text{C}_2\text{H}_4\text{O}_2$

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