



Fundamentals of **Industrial Measurement** Technology

Power Measurement



ProDSP Post Series Nr.8.

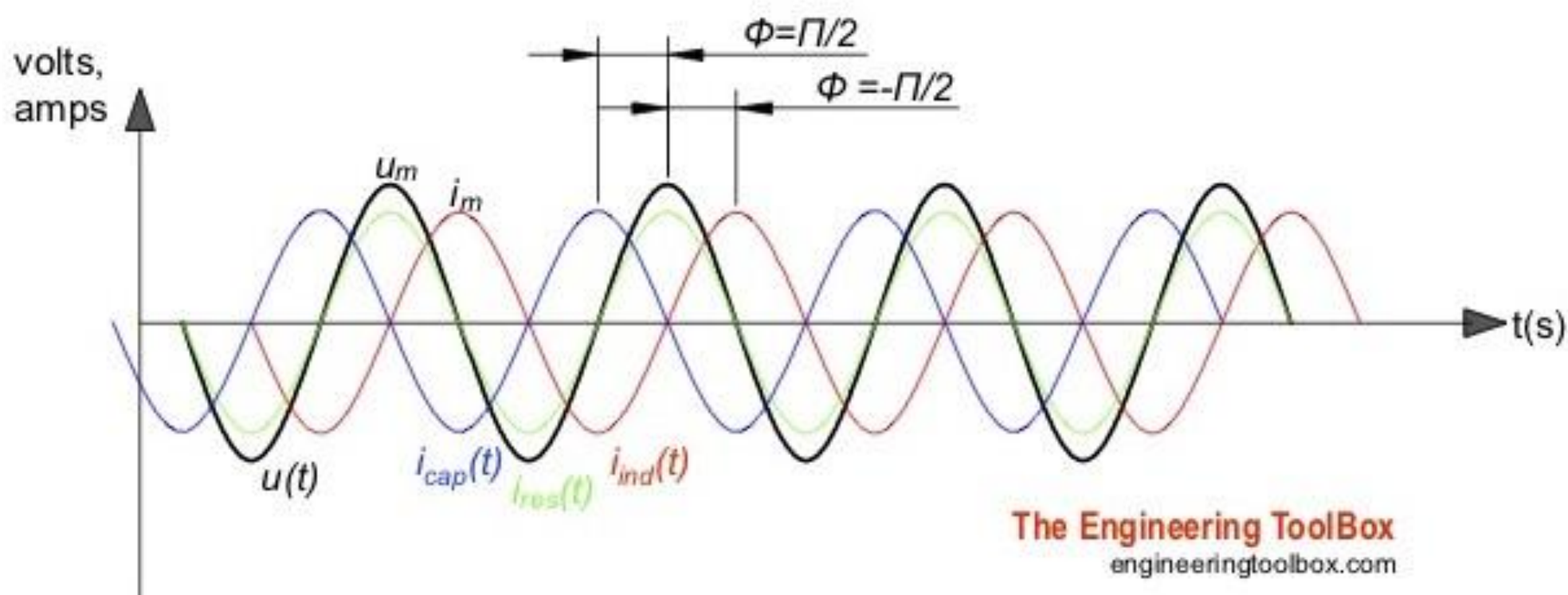


Power measurement in DC systems:

$$P = U * I$$



Power measurement in AC systems:





What to watch out for:

- Use a **Power Meter**.
- Power meters **cannot be replaced** by discrete current and voltage meters because
- Signals must be **sampled synchronously**.
- Ensure **shielded signal routing** for external sensors.
- **Multiplexing?** The same logic applies as with voltage.



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