

References

- [1] “Stationary source emissions – determination of low range mass concentration of dust – part 1: Manual gravimetric method,” Swedish Standard Institute, Stockholm, Swe, Standard, Nov. 2017.
- [2] Omega. Thermocouple probes. [Online]. Available: <https://www.omega.com/en-us/resources/thermocouple-hub>
- [3] J. D. Wilcox, “Isokinetic flow and sampling,” *Journal of the Air Pollution Control Association*, vol. 5, no. 4, pp. 226–245, 1956. doi: 10.1080/00966665.1956.10467715. [Online]. Available: <https://doi.org/10.1080/00966665.1956.10467715>
- [4] T. Glad and L. Ljung, *Reglerteknik, Grundläggande teori*. Lund: Studentlitteratur AB, 1981, 2006.
- [5] V. VANDOREN. Fixing pid, part 2. [Online]. Available: <https://www.controleng.com/articles/fixing-pid-part-2/>
- [6] Y. B. Khare and Y. Singh, “PID Control of Heat Exchanger System. (English),” *International Journal of Computer Applications 0975 – 8887*, vol. 8, no. 6, p. 23, 2010. doi: <http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.206.4845rep=rep1type=pdf>
- [7] T. Hägglund, *Autotuning*, ser. 5. London: Springer London, 2013, vol. 4, pp. 1–7.
- [8] K. Åström and R. Murray, *Feedback Systems : An Introduction for Scientists and Engineers*. Princeton University Press, 2008. ISBN 9781400828739
- [9] K. J. Astrom and L. Rundqwist, “Integrator windup and how to avoid it,” in *1989 American Control Conference*, 1989, pp. 1693–1698.

- [10] maxim integrated. Understanding flash adcs design. [Online]. Available: <https://www.maximintegrated.com/en/design/technical-documents/tutorials/8/810.html>
- [11] S. W. Smith, *The Scientist and Engineer's Guide to Digital Signal Processing*. San Diego, California: California Technical Publishing, 1999.
- [12] *Gallus Residential Diaphragm Gas Meter*, Itron, 2014, gas meter.
- [13] *Low frequency impulse transmitter, Wire fixation on connecting block*, Actaris, 01 2014, rev. 1.
- [14] Z. He, Y. He, Y. Yang, and M. Gao, "A low-cost direct reading system for gas meter based on machine vision," in *2017 12th IEEE Conference on Industrial Electronics and Applications (ICIEA)*, 2017, pp. 1189–1194.
- [15] M. Spichkova, J. van Zyl, S. Sachdev, A. Bhardwaj, and N. Desai, "Easy mobile meter reading for non-smart meters: Comparison of aws rekognition and google cloud vision approaches," 2019.
- [16] *Micaflex programmable differential pressure transmitter for pressure or flow measurement, supervision and control*, micatrone, 2007, pI controller micatrone.
- [17] *RASPBERRY PI MegaIO EXPANSION CARD*, Sequent Microsystems, 2013, rev. 4.2.

For DIVA

```
{
  "Author1": { "name": "Gustav Marstorp"},
  "Degree": { "Educational program": "Master's Programme, Systems, Control and Robotics, 120 credits"},
  "Title": {
    "Main title": "Automated Control System for Dust Concentration Measurements Using European Standard Reference Method",
    "Language": "eng" },
    "Alternative title": {
      "Main title": "Design och implementation av regulator för bestämning av masskoncentrationer av stoft enligt europeisk standard",
      "Language": "swe"
    },
    "Supervisor1": { "name": "Niclas Roxhed" },
    "Examiner": {
      "name": "Göran Stemme",
      "organisation": { "L1": "School of Electrical Engineering and Computer Science" }
    },
    "Other information": {
      "Year": "2021", "Number of pages": "xi,57"
    }
  }
```