

Anemometer Literature

History

1. Middleton (1969)
2. Kaganov & Yaglom (1976)
3. Wyngaard (1981)
4. Kristensen (1993)
5. Kristensen (1998)
6. Papadopoulos et al. (2001)

Cup-Anemometer Dynamics

1. Wyngaard et al. (1974) (theoretical, technical)
2. Kaganov & Yaglom (1976) (theoretical, technical)
3. Busch & Kristensen (1976) (theoretical, technical)
4. Wyngaard (1981) (descriptive, theoretical, technical)
5. Coppin (1982) (theoretical, technical)
6. Kristensen (1993)(theoretical, technical)
7. Kristensen (1998)(theoretical, technical)
8. Kristensen (1999*a*) (descriptive)
9. Kristensen (1999*b*) (descriptive)
10. Kristensen (2000) (theoretical, technical)
11. Papadopoulos et al. (2001) (technical)
12. Kristensen (2002) (theoretical, technical)
13. Kristensen & Hansen (2002) (theoretical, technical)
14. Kristensen et al. (2003) (theoretical, technical)

Related Topics

1. Kristensen (1994)
2. Kristensen et al. (2001)

- Busch, N. E. & Kristensen, L. (1976), 'Cup anemometer overspeeding', *J. Appl. Meteor.* **15**, 1328–1332.
- Coppin, P. A. (1982), 'Cup anemometer overspeeding', *Meteorol. Rdsch.* **35**, 1–11.
- Kaganov, E. I. & Yaglom, A. M. (1976), 'Errors in wind speed measurements by rotation anemometers', *Boundary-Layer Meteorol.* **10**, 1–11.
- Kristensen, L. (1993), The cup anemometer and other exciting instruments, Technical Report R-615(EN), Risø National Laboratory.
- Kristensen, L. (1994), Cups, props and vanes, Technical Report R-766(EN), Risø National Laboratory.
- Kristensen, L. (1998), 'Cup anemometer behavior in turbulent environments', *J. Atmos. Ocean. Technol.* **15**, 5–17.
- Kristensen, L. (1999a), 'Kopanemometret', *Vejret* **78**, 29–40. In Danish.
- Kristensen, L. (1999b), 'The perennial cup anemometer', *Wind Energy* **2**, 59–75.
- Kristensen, L. (2000), 'Measuring higher-order moments with a cup anemometer', *J. Atmos. Ocean. Technol.* **17**, 1139–1148.
- Kristensen, L. (2002), 'Can a cup anemometer 'underspeed', a heretical question', *Boundary-Layer Meteorol.* **103**, 163–172.
- Kristensen, L. & Hansen, O. F. (2002), Distance constant of the Risø cup anemometer, Technical Report R-1320(EN), Risø National Laboratory.
- Kristensen, L., Hansen, O. F. & Højstrup, J. (2003), 'Sampling bias on cup anemometer mean winds', *Wind Energy* **6**, 321–331.
- Kristensen, L., Jensen, G., Hansen, A. & Kirkegaard, P. (2001), Field calibration of cup anemometers, Technical Report R-1218(EN), Risø National Laboratory.
- Middleton, W. E. K. (1969), *Invention of Meteorological Instruments*, The Johns Hopkins Press, Baltimore, MD.
- Papadopoulos, K. H., Stefanatos, N., Paulsen, U. S. & Morfiadakis, E. (2001), 'Effects of turbulence and flow inclination on the performance of cup anemometers in the field', *Boundary-Layer Meteorol.* **101**, 77–107.
- Wyngaard, J. C. (1981), 'Cup, propeller, vane, and sonic anemometers in turbulence research', *Ann. Rev. Fluid Mech.* **13**, 399–423.
- Wyngaard, J. C., Bauman, J. T. & Lynch, R. A. (1974), Cup anemometer dynamics, in 'Proc. Flow, Its Measurements and Control in Science and Industry', Vol. 1, Instrument Society of America, Pittsburg, PA, pp. 701–708.