7. REFERENCES

- AIJ. (2004). Recommendations for loads on buildings." AIJ-RLB-2004.
- Alrawashdeh, H., & Stathopoulos, T. (2015). Wind pressures on large roofs of low buildings and wind codes and standards. *Journal of Wind Engineering and Industrial Aerodynamics*, 147, 212–225. http://dx.doi.org/10.1016/j.jweia.2015.09.014
- ASCE/SEI 7, 2016. Minimum Design Loads for Buildings and Other Structures. (2016). Structural Engineering Institute of ASCE.
- AS/NZS 1170.2 (2011) Structural Design Actions, Part 2: Wind Actions", Australian/ New Zealand Standard. (n.d.).
- AWES. (1994). Quality assurance manual–Cladding pressure and environmental wind studies. AWESQAM-1-1994, Sydney.
- Bailey, A. (1933). Wind pressures on buildings. The Institution of Civil Engineers.
- Bailey, A., & Vincent, N. D. G. (1943). Wind pressure on buildings, including effects of adjacent buildings. J. Inst. Or. Eng, 20, 243.
- BCJ. (2008). Guide book on wind tunnel testing of building structures for practitioners (translated).
- Bitsuamlak, G. T., Warsido, W., Ledesma, E., & Chowdhury, A. G. (2013). Aerodynamic Mitigation of Roof and Wall Corner Suctions Using Simple Architectural Elements. *Journal of Engineering Mechanics*, 139, 396–408.

- Blocken, B., Stathopoulos, T., & Carmeliet, J. (2007). CFD simulation of the atmospheric boundary layer: Wall function problems. *Atmospheric Environment*, 41(2), 238–252. https://doi.org/10.1016/j.atmosenv.2006.08.019
- Boughton, G., Henderson, D. J., Ginger, J. D., Holmes, J. D., Walker, G. R., Leitch, C., Somerville, L. R., Frye, U., Jayasinghe, N. C., & Kim, P. (2011). *Tropical cyclone Yasi structural damage to buildings* (No. TR57).
- Boughton, G., & Reardon, G. F. (1982). *Simulater wind tests on a house*, (No. TR14). Cyclone testing station, James cook university.
- Boughton, G., & Reardon, G. F. (1983). Testing a high set house designed for 42 m/s winds (No. 19). Cyclone testing station, James cook university.
- Boughton, G., & Reardon, G. F. (1984). Simulated wind load test on the Tongan hurricane house (No. TR23). Cyclone testing station, James cook university.
- Bounkin, K., & Tcheremoukhin, A. (1928). Wind pressures on roofs and walls of buildings. *Central Aero-Hydrodynamical Inst.*
- Cebeci, O. Z. (1987). Strength of concrete in warm and dry environment. *Materials* and Structures, 20(4), 270–272. https://doi.org/10.1007/BF02485923
- Celik, I. B. (1999). Introductory Turbulence Modeling. Lectures Notes, Mechanical & Aerospace Engineering Deartment, West Virginia University.

- Cermak, J. E. (1975). Applications of fluid mechanics to wind engineering- A freeman scholar lecture. *Journal of Fluids Engineering*, 97(1), 9–38. https://doi.org/10.1115/1.3447225
- Chang, C. H., & Meroney, R. N. (2003). The effect of surroundings with different separation distances on surface pressures on low-rise buildings. *Journal of Wind Engineering and Industrial Aerodynamics*, 91(8), 1039–1050.
- Chen, J. H. (2012). A Study on the Selection of Optimal Roof Type for Low-rise buildings group—In a View of Wind Pressures Action. *Procedia Engineering*, 1149–1154.
- Cook, N. J., & Mayne, J. R. (1979). A novel working approach to the assessment of wind loads for equivalent static design. *Journal of Wind Engineering and Industrial Aerodynamics*, 4(2), 149–164.
- Dagliesh, W. A., & Templin, J. T. (1980). Comparisons of wind tunnel and full-scale building surface pressures with emphasis on peaks. Proc., 5th Int. Conf. on Wind Engineering.
- Davenport, A. G. (1964). Note on the distribution of the largest value of a random function with application to gust loading. *Proceedings of the Institution of Civil Engineers, Paper No.6739*, 28, 187–196.
- Davenport, A. G., & Isyumov, N. (1967). The application of the boundary layer wind tunnel to the prediction of wind loading. *Proc. International Research Seminar* on Wind Effects on Buildings and Structures, 201–230.

- EN 1991-1-4, Eurocode 1, 2005: Actions on Structures-General Actions-Part 1-4. Wind Actions, European Standard. (2005).
- Fouad, N. S., Mahmoud, G. H., & Nasr, N. E. (2018). Comparative study of international codes wind loads and CFD results for low rise buildings. *Alexandria Engineering Journal*, 57, 3623–3639.
- Franke, J., Hellsten, A., Schlunzen, K. H., & Carissimo, B. (2011). The COST 732
 Best Practice Guideline for CFD simulation of flows in the urban environment:
 A summary. *International Journal of Environment and Pollution*, 44(1–4), 419–427. https://doi.org/10.1504/IJEP.2011.038443
- Gavanski, E., Gurley, K. R., & Kopp, G. A. (2016). Uncertainties in the Estimation of Local Peak Pressures on Low-Rise Buildings by Using the Gumbel Distribution Fitting Approach. *Journal of Structural Engineering*. https://doi.org/10.1061/(ASCE)ST.1943-541X.0001556
- Geurts, C. P. W. (2001). Transparency of pressure and force coefficients. *Proc., 3rd European and African Conf. on Wind Engineering*, 165–172.
- Geurts, C. P. W., Kopp, G. A., & Morrison, M. J. (2013). A review of the wind loading zones for flat roofs in code provisions. *Proc.*, 6th European and African Conf. on Wind Engineering, 1–6.
- Ginger, J. D., Reardon, G. F., & Whitebread, B. J. (1999). Wind load effects and equivalent ressures on low-rise house roofs. *Engineering Structures*, 22, 638– 646.

- Gorlé, C., van Beeck, J., Rambaud, P., & Van Tendeloo, G. (2009). CFD modelling of small particle dispersion: The influence of the turbulence kinetic energy in the atmospheric boundary layer. *Atmospheric Environment*, 43(3), 673–681. https://doi.org/10.1016/j.atmosenv.2008.09.060
- Habte, F., Chowdhury, A. G., & Zisis, I. (2017). Effect of wind-induced internal pressure on local frame forces of low-rise buildings. *Engineering Structures*, 143, 455–468.
- Hargreaves, D. M., & Wright, N. G. (2007). On the use of the k-e model in commercial CFD software to model the neutral atmospheric boundary layer. *Journal of Wind Engineering and Industrial Aerodynamics*, 95(5), 355–369. https://doi.org/10.1016/j.jweia.2006.08.002
- Henderson, D. J., Ginger, J. D., Leitch, C., Boughton, G., & Falck, D. (2006). Tropical cyclone Larry- Damage to buildings in the innisfail aera (No. TR51). Cyclone testing station, James cook university.
- Ho, T. C. E., Surry, D., & Davenport, A. G. (1991). Variability of low building wind loads due to surroundings. *Journal of Wind Engineering and Industrial Aerodynamics*, 38, 297–310.

Holmes, J. D. (1983). Wind loads on low-rise buildings—A review. CSIRO.

Holmes, J. D. (1985). Wind action on glass and Brown's integral. *Engineering* Structures, 4, 226–230. Holmes, J. D. (1986). Wind Pressures on Tropical Building Low-Rise Building. Journal of Wind Engineeringand IndustrialAerodynamic, 53(1–2), 105–123.

Holmes, J. D. (2001). Wind Loading of Structures. Taylor & Francis.

- Holmes, J. D., & Cochran, L. S. (2003). Probability distributions of extreme pressure coefficients. *Journal of Wind Engineering and Industrial Aerodynamics*, 91, 893–901. https://doi.org/10.1016/S0167-6105(03)00019-9
- Holmes, J. D., & Ginger, J. D. (2012). Internal pressures the dominant windward opening case – a review. Journal of Wind Engineering and Industrial Aerodynamics, 70–76.
- Holmes, J. D., & Moriarty, W. W. (1999). Application of the generalized Pareto distribution to extreme value analysis in wind engineering. *Journal of Wind Engineering and Industrial Aerodynamics*, 83(1–3), 1–10.
- Hosking, J. R. M., Wallis, J. R., & Wood, E. F. (1985). Estimation of the Generalized ExtremeValue Distribution by the Method of Probability-Weight. *TECHNOMETRICS*, 27(3), 251–261.
- Hoven, V. D. (1957). Power spectrum of horizontal wind speed in the frequency range from 0.0007 to 900 cycles per hour. *Journal of Meteorology*, *14*, 160–164.
- Hoxey, R. P. (1991). Structural Response of a Portal Framed Building under Wind Load. Journal of Wind Engineering and Industrial Aerodynamics, 38, 347– 356.

Hussain, M., & Lee, B. E. (1980). A wind tunnel study of the mean pressure forces acting on large groups of low-rise buildings. *Journal of Wind Engineering & Industrial Aerodynamics*, 6, 207–225.

ISO. (2009). Wind actions on structures. ISO 4354:2009.

- Jayasinghe, N. C. (2012). The distribution of wind loads and vulnerability of metal clad roofing structures in contemporary Austalian houses [PhD thesis, James Cook University]. http://researchonline.jcu.edu.au/39226/
- Jenson, M. (1958). The Model-law for Phenomena in Natural Wind. *Ingenioren*, 2, 121–128.
- Jenson, M. (1967). Some lessons learned in building aerodynamics research. Proc. Int. Res. Seminar on Wind Effects on Buildings and Structures.
- John, A. D. (2009). *Effect of architectural features on wind load in buildings* [PhD thesis]. Department of Civil Engineering, Indian Institute of Technology Roorkee.
- John, A. D., Gairola, A., & Mukherjee, M. (2009). Effect of Boundary Wall on Wind Pressure Coefficients on A Low-Rise Building. *Journal of Wind and Engineering*, 6(1), 10–18.
- Kanda, M., & Maruta, E. (1993). Characteristics of fluctuating wind pressure on long low—Rise buildings with gable roofs. *Journal of Wind Engineeringand Industrial Aerodynamics*, 50, 173–182.

- Kasperski, M. (1997). Specification and codification of design wind loads [Rep., Fakultat fur Bauingenieurwesen].
- Kasperski, M. (2003). Specification of the design wind load based on wind tunnel experiments. Journal of Wind Engineering and Industrial Aerodynamics, 91(4), 527–541.
- Kim, Y. C., Yoshida, A., & Tamura, Y. (2012). Characteristics of surface wind pressures on low-rise building located among large group of surrounding buildings. *Engineering Structures*, 35, 18–28.
- Kopp, G. A., & Morrison, M. J. (2018). Component and cladding wind loads for lowslope roofs on low-rise buildings. *Journal of Strucutral Engineering*, *144*(4).
- Krishna, P. (1995h). Wind loads on low rise buildings—A review. Journal of Wind Engineering and Industrial Aerodynamics, 54/55.
- Leitch, C., Ginger, J. D., Harper, B., Kim, P., Jayasinghe, N. C., & Somerville, L. R.
 (2010). Performance of housing in Brisbane following storms on 16 november
 2008. Australian Journal of Structural Engineering, 11(1).
- Li, B., Liu, J., Luo, F., & Man, X. (2015). Evaluation of CFD Simulation Using Various Turbulence Models for Wind Pressure on Buildings Based on Wind Tunnel Experiments. 121, 2209–2216.
- Li, G., Gan, S., Li, Y., & Wang, L. (2017). Wind-induced interference effects on lowrise buildings with gable roof. *Journal of Wind Engineering and Industrial Aerodynamics*, 170, 94–106. https://doi.org/10.1016/j.jweia.2017.07.009

- Li, Q. S., Hu, S. Y., Da, Y. M., & Li, Z. M. (2009). Extreme-value analysis for field measured peak pressure coefficients on a low-rise building. *The Seventh Asia-Pacific Conference on Wind Engineering, November 8-12, ,.*
- Liu, H. (1991). Wind Engineering, A Handbook for Structural Engineers.
- Liu, S., Pan, W., Zhao, X., Zhang, H., Cheng, X., Long, Z., & Chen, Q. (2018). Influence of surrounding buildings on wind flow around a building predicted by CFD simulations. *Building and Environment*, 140, 1–10.
- Longo, R., Ferrarotti, M., Sánchez, C. G., Derudi, M., & Parente, A. (2017). Advanced turbulence models and boundary conditions for flows around different configurations of ground-mounted buildings. *Journal of Wind Engineering and Industrial Aerodynamics*, 167, 160–182. https://doi.org/10.1016/j.jweia.2017.04.015
- Massimiliano, G., & Vittorio, G. (2002). Damage Accumulation in Glass Plates. Journal of Engineer Mechanics, ASCE, 7, 801–805.
- Meecham, D., Surry, D., & Davenport, A. G. (1991). The Magnitude and Distribution of WindInduced Pressures on Hip and Gabled Roofs. *Journal of Wind Engineering and Industrial Aerodynamics*, 38, 257–272.
- Meroney, R. N., & Neff, D. E. (1982). Dispersion of vapour from liquid natural gas spills-evaluation of simulation in a meteorological wind tunnel. *Journal of Wind Engineeringand IndustrialAerodynamic*, 10(1), 1–19. https://doi.org/10.1016/0167-6105(82)90050-2

- Moravej, M., Irwin, P., Chowdhury, A. G., & Hajra, B. (2017). Effects of roof height on local pressure and velocity coefficients on building roofs. *Engineering Structures*, *150*, 693–710.
- NBC2015, 2015. User's Guide-NBC 2015, Structural Commentaries (Part 4). Issued by the Canadian Commission on Buildings and Fire Codes, National Research Council of Canada. (n.d.).
- Ong, R. H., Patruno, L., Yeo, D., He, Y., & Kwok, K. C. S. (2020). Numerical simulation of wind-induced mean and peak pressures around a low-rise structure. *Engineering Structures*, 214.
- Parackal, K. I. (2018). The Structural Response and Progressive Failure of Batten to Rafter Connections under Wind Loads [Doctoral Thesis]. James Cook University.
- Parackal, K. I., Ginger, J. D., & Henderson, D. J. (2018). Wind load fluctuations on roof batten to rafter/truss connections. *Journal of Wind Engineering & Industrial Aerodynamics*, 193–201.
- Parente, A., Gorle, C., Van Beck, J., & Benocci, C. (2010). RANS simulation of ABL flows: Application of advanced wall boundary conditions to configurations with mixed rough and smooth surfaces. http://hdl.handle.net/2013/
- Parente, A., Gorlé, C., van Beeck, J., & Benocci, C. (2011a). Improved k–ε model and wall function formulation for the RANS simulation of ABL flows. *Journal of*

Wind Engineering and Industrial Aerodynamics, 99(4), 267–278. https://doi.org/10.1016/j.jweia.2010.12.017

- Parente, A., Gorlé, C., van Beeck, J., & Benocci, C. (2011b). A Comprehensive Modelling Approach for the Neutral Atmospheric Boundary Layer: Consistent Inflow Conditions, Wall Function and Turbulence Model. *Boundary-Layer Meteorology*, 140(3), 411. https://doi.org/10.1007/s10546-011-9621-5
- Parente, A., Longo, R., & Ferrarotti, M. (2019). Turbulence model formulation and dispersion modelling for the CFD simulation of flows around obstacles and on complex terrains. https://doi.org/10.35294/ls201903.parente
- Peterka, J. A. (1983). Selection of local peak pressure coefficients for wind tunnel studies of buildings. *Journal of Wind Engineeringand Industrial Aerodynamics*, 13, 477–488.
- Pindado, S., & Meseguer, J. (2003). Wind tunnel study on the influence of different parapets on the roof pressure distribution of low-rise buildings. *Journal of Wind Engineering and Industrial Aerodynamics*, 91, 1133–1139.
- Prasad, D., Uliate, T., & Ahmed, M. R. (2009). Wind Loads on Low-Rise Building Models with Different Roof Configurations. *International Journal of Fluid Mechanics Research*.
- Quan, Y., Wang, F., & Gu, M. (2014). A Method for Estimation of Extreme Values of Wind Pressure on Buildings Based on the Generalized Extreme-Value Theory.

Hindawi Publishing Corporation Mathematical Problems in Engineering, 2014. http://dx.doi.org/10.1155/2014/926253

- Reardon, G. F., Walker, G. R., & Jancauskas, E. D. (1986). *Effects of cyclone winifred on buildings*, (No. TR27). Cyclone testing station, James cook university.
- Richards, P. J., & Hoxey, R. P. (1993). Appropriate boundary conditions for computational wind engineering models using the k-€ turbulence model. *Journal of Wind Engineering and Industrial Aerodynamics*, 46–47, 145–153. https://doi.org/10.1016/0167-6105(93)90124-7
- Richardson, G. M., & Surry, D. (1991). Comparisons of wind-tunnel and full-scale surface pressure measurements on low-rise pitched-roof buildings. *Journal of Wind Engineering and Industrial Aerodynamics*, 38, 249–256.
- Roberston, A. P. (1991). Effect of Eaves Detail on Wind Pressures Over an Industrial Building. *Journal of Wind Engineering and Industrial Aerodynamics*, 38, 325– 333.
- Rodi, W. (1997). Comparison of LES and RANS calculations of the flow around bluff bodies. *Journal of Wind Engineering and Industrial Aerodynamics*, 69–71, 55–75. https://doi.org/10.1016/S0167-6105(97)00147-5
- Sadek, F., & Simiu, E. (2002). Peak Non-Gaussian Wind Effects for Database-Assisted Low-Rise Building Design. *Journal of Engineering Mechanics*, 128(5), 530–539. https://doi.org/10.1061/~ASCE!0733-9399~2002!128:5~530!

- Shah, K. B., & Ferziger, J. H. (1997). A fluid mechanicians view of wind engineering: Large eddy simulation of flow past a cubic obstacle. *Journal of Wind Engineering and Industrial Aerodynamics*, 67–68, 211–224. https://doi.org/10.1016/S0167-6105(97)00074-3
- Simiu, E., & Yeo, D. (2019). Wind effects on structures: Modern structural design for wind (4th ed.). John Wiley & Sons Ltd.
- Sockel, H. (1980). Local pressure fluctuations. Proc., 5th Int. Conf. on Wind Engineering.
- Stathopoulos, T. (1979). *Turbulent Wind Action on Low-rise Buildings* [Ph.D. Thesis]. University of Western Ontario.
- Stathopoulos, T. (1984). Wind loads on low-rise buildings: A review of the state of the art. *Engineering Structures*, *6*, 119–135.
- Stathopoulos, T., & Baniotopoulos, C. C. (2007). Wind Effects on Buildings and Design of WindSensitive Structures. SpringerWeinNewYork.
- Stathopoulos, T., & Surry, D. (1983). Scale Effects in Wind Tunnel Testing of Low Buildings. 13, 313–326.

Tamura, Y., & Kareem, A. (2013). Advanced Structural Wind Engineering.

Tieleman, H. W. (2003). Wind tunnel simulation of wind loading on low-rise structures: A review. Journal of Wind Engineering and Industrial Aerodynamics, 91, 1627–1649.

- Tieleman, H. W., Akins, R. E., & Sparks, P. R. (1981). Comparison of wind tunnel and full-scale wind pressure ,measurements on low-rise buildings. *Journal of Wind Engineering and Industrial Aerodynamics*.
- Tieleman, H. W., Ge, Z., & Hajj, M. R. (2007). Theoretically estimated peak wind loads. Journal of Wind Engineering and Industrial Aerodynamics, 95, 113– 132. https://doi.org/10.1016/j.jweia.2006.05.004
- Tominga, Y., Mochida, A., & Yoshie, R. (2008). AIJ guidelines for practical applications of CFD to pedestrian wind environment around buildings. *Journal of Wind Engineering and Industrial Aerodynamics*, 1749–1761.
- Tong, Z., Chen, Y., & Malkawi, A. (2016). Defining the Influence Region in neighborhood-scale CFD simulations for natural ventilation design. *Applied Energy*, 182, 625–633.
- Uematsu, Y., & Isyumov, N. (1999). Review -Wind pressures acting on low-rise buildings. *Journal of Wind Engineeringand IndustrialAerodynamic*, 82, 1–25.

Vickery, B. J. (1976). Wind loadson low rise buildings. D.R.C. Seminar,.

- Walker, G. R. (1995). *Report on Cyclone tracy-effect on buildings*. Australian department of housing and construction.
- Walker, G. R., & Roy, R. J. (1985). Wind loads on houses in an urban environment,.Asia Pacific Syrup. on Wind Engineering, India.

- Wieringa, J. (1992). Updating the Davenport rou(jhness classification. Journal of Wind Engineering and IndustrialAerodynamic, 41(44), 357–368.
- WMO. (1989). Statistical distributions for flood frequency analysis (No. 33).Secretariat of the world meteorological organization geneva switzerland.
- Xie, Z.-T., & Castro, I. P. (2009). Large-eddy simulation for flow and dispersion in urban streets. *Atmospheric Environment*, 43(13), 2174–2185. https://doi.org/10.1016/j.atmosenv.2009.01.016