

International publication selection

by

Didier DELAUNAY, Sophie BODERE, Aurélien CHANTELOT, Tristan CLARENC

WIND MODELLING

Delaunay D., Chantelot A., Guyader T., Alexandre P. (2004) *Meteodyn WT: A software for wind resource assessment in complex terrain*, European Wind Energy Conf., London (UK), Nov. 2004

Nicoullaud V., Delaunay D. (2000) *Modelling particle deposition in turbulent dispersed two-phase flow*, Int. Conf. on Computational Wind Engineering , Birmingham (UK), sept. 2000

Delaunay D. (1995), *Calcul numérique des écoulements*, Traité de physique du bâtiment - Tome 1 : connaissances de base, Ed. Centre Scientifique et Technique du Bâtiment, Paris, 1995

Delaunay D., Lakehal D., Pierrat D. (1995), *Numerical approach for wind loads prediction on buildings and structures*, J. of Wind Engineering and Industrial Aerodynamics, July 1995

Pierrat D., Delaunay D. (1995), *Numerical simulation of the flow past a 2-D model hill*, Euromech colloq. Atmospheric turbulence and dispersion in complex terrain, BOLOGNA (ITA), sept. 1995

Delaunay D., Locatelli J.P. (1990), *A gust model for the design of large horizontal axis wind turbines* , European Wind Energy Conference and Exhibition, Madrid , Spain, sept. 1990

WIND EFFECT ON CONSTRUCTIONS

Delaunay D. (2006) *Calcul des actions du vent dans l'Eurocode 1*, Communication Association France-Belgique-Suisse pour l'Ingénierie du Vent , Paris, 19/09/2006

Bodéré S. and Grillaud G. (2005) *Wind effects on out-of-service tower cranes*, Proc. 4th European & African Conference on Wind Engineering, Prague, 11-15 July 2005

Grillaud G., Flamand O., Bodéré S. (2005) *Le comportement au vent du viaduc de Millau: 10 ans d'études au CSTB*, Travaux, n°816, Feb 2005, pp 109-113

Grillaud G., Bodéré S., Flamand O. (2004) *Wind studies for the Millau Viaduct*, proc. colloque STEELBRIDGE - MILLAU (France) June 2004

Barré C., Delaunay D., Flamand O., Grillaud G.(1999) *The wind design of the Millau Viaduct*, KRYNICA'99 – Wroclaw – Sept. 13-18, 1999

Delaunay D., Grillaud G., Biétry J., Sacré C. (1999) *In-situ validations of wind design studies for long-span bridges: the Millau Viaduct*, 10th Int. Conf. on Wind Engineering - Copenhagen (DK) 21-24 June 1999

Delaunay D. , Grillaud G. (1998) *Field measurements of the wind response of a cable-stayed bridge: validation of previsional studies: Normandy Bridge and Pont de l'Iroise*, J. of Wind Engineering and Industrial Aerodynamics, April 1998

Biétry J., Delaunay D., Conti E. (1995) *Comparison of full-scale measurements and computation of wind effects on a cable-stayed bridge* , J. Wind Engineering and Industrial Aerodynamics, July 1995

Delaunay D., Grillaud G. (1994) *Méthodes d'estimation des caractéristiques du vent dans les sites complexes*, Congrès AFPC-ITPTP, PARIS, 14 June 1994

URBAN CLIMATOLOGY

Delaunay D., Soubra S., Coiret A., Carré S., Bouvier P. (2002) *Development of an interactive design tool for the evaluation of pedestrians thermal environment*, 1st Int. Workshop on Architectural and Urban Ambient Environment – February 6-7-8, 2002, Nantes, France

Delaunay D. (1998), *Numerical simulation of the pollutant dispersion at the street scale: The importance of turbulence modelling and discretization*, Proceedings Int. Conf. on Air Pollution Modelling and Simulation, Champs-sur-Marne, France, October 26-29, 1998

Delaunay D. (1997) *Numerical simulation of atmospheric dispersion in an urban site : comparison with field data*, J. of Wind Engineering and Industrial Aerodynamics, November 1997

Delaunay D., Lakehal D., Barré C., Sacré C. (1997), *Numerical and wind-tunnel simulation of gas dispersion around a rectangular building*, J. Wind Engineering and Ind. Aerodynamics, April 1997

Delaunay D. (1995), *Rayonnement solaire et éclairage*, Traité de physique du bâtiment - Tome 1 : connaissances de base, Ed. Centre Scientifique et Technique du Bâtiment, Paris, 1995

WIND-RELATED SAFETY FOR TRANSPORT

Delaunay D., Baker C., Cheli F., Wright N. (2006) *Wind Alarm Systems for Road and Rail Vehicles, the WEATHER project*, 13th Int. Road Weather Conference, Turin (I), March 25th - 27th 2006

Delaunay D., Cléon L.M., Sacré C., Sourget F., Gautier P.E. (2003) *Designing a Wind Alarm System for the TGV-Méditerranée* – 11th Int. Conf. on Wind Engineering – Lubbock (Texas – USA) June 2003.

Gautier P.E., Cléon L.M., Delaunay D., Hongre L. (2002) *Protection de la ligne TGV-Méditerranée basée sur une prévision temporelle et spatiale des forts vents latéraux*, Journées « Capteurs et traitement du signal pour les transports guidés », Paris, dec. 2001 - revue I2M – Editions Hermès

Gautier P.E., Delaunay D., Sacré C., Parrot M., Dersigny C. (2001) *TGV-Mediterranee – High Speed Line Safety against cross-winds : a slow-down system based on anemometric measurements and spatial short-term meteorological prediction*, World Congress Railway Research, Koln (D), nov 2001

WIND ENERGY AND WIND CLIMATOLOGY

Clarenc T., Girard N., Chantelot A., Delaunay D. (2007) *Wind farm production assessment in forested and complex terrain*, European Wind Energy Conference, Milan, Italy, 7-10 May 2007

Chantelot A., Delaunay D., Clarenc T., Koulibaly D. (2006) *Wind Resource Assessment in Forested and Complex Terrain*, European Wind Energy Conference, Athens (Greece) , 27 Feb - 2 March 2006

Sacré C., Delaunay D. (1992), *Structure spatiale de la turbulence au cours de vents forts sur différents sites*, J. wind engineering industrial aerodynamics, n. 1/3, 1992, pp. 295-303, vol 41

Barnaud G., Berlianu I.V., Bietry J., Delaunay D. (1990) *Le cyclone Hugo : des propositions d'actions pour éviter de nouveaux dégâts*, CSTB Magazine, n. 34, may 1990, pp. 3-7,

Delaunay D. (1989) *Cartographie du vent en Guadeloupe et en Martinique pour application à la ventilation naturelle*, Congrès CIB 89. PARIS, 19-23 June 1989

Delaunay D. (1988) *Extreme wind speed distributions for tropical cyclones*, J. Wind Engineering Industrial Aerodynamics, 1988, pp. 61-68, vol 28

Delaunay D. (1987) *Cartographie de l'énergie éolienne en Bretagne*, Congrès Arts et Techniques du vent, Saint-Malo, June 1987

Delaunay D. (1987) *Vents extrêmes dus aux cyclones tropicaux dans les DOM-TOM*, Building climatology'87 - 2nd international symposium, Moscow (URSS), 12-15 May 1987