



Weibull Distribution Relationships of Heights

P. Buenestado-Caballero (1), E. Jarauta-Bragulat (2) and C. Hervada-Sala (3)

(1) Escola Universitaria d'Enginyeria Tecnica Industrial de Barcelona, Departament de Matematica Aplicada III, Universitat Politecnica de Catalunya
<Pablo.Buenestado@upc.edu>, (2) Departament de Matematica Aplicada III, Universitat Politecnica de Catalunya (3) Departament de FEN, UPC

In the atmospheric surface layer, the distribution of wind probability is adjusted to the Weibull distribution according to 2 parameters (scale parameter and shape parameter). This study aims at relating these parameters at different heights. The research presents 2 analytical-empirical relationships (one for each parameter) that allow wind distribution estimates at different heights within the atmospheric surface layer.