

Wind Speed Meter

Donald T. Resio, Charles Linwood Vincent

How to Make a Wind Speed Meter Barbara Alpert, 2019 You can feel the air rush against you on a windy day. How can you measure the wind's speed? This book shows you how to make your own wind speed meter. Using simple materials and easy step-by-step instructions, young readers can explore weather science through this fun project.--Publisher's description.

Evaluation of the T-755/GMQ-20 Wind Speed and Direction Transmitter Russell M. Peirce (Jr.), 1965

A Constant Temperature Wind Component Meter Development and Application Mikio Miyake, 1965

Wind Data from the 250-foot (76.2-meter) Tower at Wallops Island, Virginia James A. Cochran, Robert M. Henry, 1968

Some Wind Stress Measurements Over Wave Surfaces Floyd C. Elder, 1969

Wind Measurement Systems and Wind Tunnel Evaluation of Selected Instruments J. V. Ramsdell, J. S. Wetzel, 1981

Variation of the Drag Coefficient with Wind and Wave State Beverly J. Byars, 1985 The dissipation method is used to obtain estimates for the friction velocity U_{*} , as well as values for the neutral drag coefficient, C_{DN} , for data collected from a coastal tower off San Diego, California. C_{DN} is found to be independent of the ten-meter height windspeed, U_{10} , for velocities between 4-9 m/sec. Its value is estimated to be $(0.94 \pm 0.4) \times 10^{-3}$ which compares well with values by Smith (1980) and Large and Pond (1981). Definite trends in C_{DN} with fetch and sea state are also observed. Drag coefficient estimates are found to be higher for short fetch than for long fetch conditions. C_{DN} is also seen to increase sharply just before frontal passages and during sea breeze conditions when the waves are actively growing. With the windspeed and wave field reaching

equilibrium, C_{DN} is found to decrease with time to a smaller and more constant value. (Author).

Field Test Results of a Laser Doppler Velocimeter and an Acoustic Doppler Wind Sounder

Frederick J. Brousaides, 1978 A field test program was conducted to evaluate the potential of two indirect wind sensing techniques as possible support in a warm fog dispersal system. The sensors examined were a Laser Doppler Velocimeter and an Acoustic Doppler Wind Sounder. Data from these devices were correlated with measurements taken by anemometers mounted upon a 61-m meteorological tower. The average deviation of the Laser Doppler Velocimeter was + or - 1.0 m/sec in wind speed and + or - 7 deg in azimuth. Five-minute averaging periods were taken and four to six altitudes were scanned during each run. The average deviation of the Acoustic Doppler Wind Sounder for 5-min averages was + or - 0.9 m/sec in wind speed and + or - 13 deg in azimuth. In one protracted run using 10-min averages, the deviations were + or - 0.6 m/sec in wind speed and + or - 6 deg in azimuth.

Report of Inland Wind Speed Monitoring in Wisconsin, December 1994-November 1995 , 1996

Air-speed Meters for Serial Navigation, July 1919 United States. Army. Air Service. War Department, 1919

Observations of the Wind Field in the First Ten Meters of the Atmosphere Above the Ocean

Kenneth W. Ruggles, 1969 Simultaneous measurements of mean wind speed, horizontal wind velocity, vertical wind velocity, and water height were made during the summer of 1968 at an exposed field site off the New England Coast. Measurements were conducted with and without an artificial sea slick on the water, demonstrating the importance of small waves to air-sea interaction. Analysis indicates better than 90 percent of the validly measured wind profiles are logarithmic. The friction velocity U^* is a linear function of wind speed. The roughness length parameter is highly structured, and can be

explained in part by the Kelvin-Helmholtz instability and the onset of wave generation. (Author).

Estimation of Winds Over the Great Lakes Donald T. Resio, Charles Linwood Vincent, 1976

Factors for Adjustment of Wind Speed Over Water to a 10-meter Height Stuart D. Smith, 1981

Arduino Sensors for Everyone Ronnie Kim, 2021-06-12 Prepare: Getting Started with Sensors and Arduino Choose the right sensor for your situation and learn the basic knowledge you need to know to handle it properly. Learn about the various characteristics that determine the performance of the sensor, the interface method, and precautions for use. Install the program to run Arduino and check how to use the library to be used for practice, and you are ready! Practice: Measuring the pollutants that harm your body From simple temperature and humidity to fine dust, ultraviolet rays, formaldehyde, and radiation, we will cover 18 sensors that can measure air pollutants and atmospheric conditions that affect the human body. We will explore the specifications, features, and operating principles of each sensor and connect them with Arduino to accurately measure the value. One more step!: Take on a sensor project If you have studied how each sensor works and measured the air environment around you, you can now apply the sensor to various projects. In this book, we will make a simple 'fine dust & temperature and humidity meter' and use LCD, Bluetooth, Wi-Fi, and RF communication to display the results of the project.

The METER-ORNL Precipitation Network Robert Lind Miller, R. E. Saylor, A. A. N. Patrinos, 1978
Reports on Wind Power Published by ERA, 1949 to 1968: Wind measurement and characteristics Electrical Research Association, 1975

Meteorological monitoring guidance for regulatory modeling applications, 2000

Powered Paragliding Bible 6 Jeff Goin, 2020-04 A clear, CONCISE, and professionally-illustrated guide for anyone wanting to become an ACCOMPLISHED paramotor pilot, either footlaunch or on

wheels. It is comprehensive but breaks down information into digestible chunks that fit well with quality training programs. Section 1 is all about safely getting to first flight and gaining competency. Section 2 covers what's needed to set out on your own. it offers PRACTICAL airspace, weather, airport, site, cross country, and maintenance knowledge. Section 3 is about MASTERING and surviving the sport including risk management, precision flying, handling turbulence, tough landing options and much more. Section 4 details the weird aerodynamics and physics that govern paramotor flight, more in-depth weather, and history knowledge. Section 5 is about choosing gear--what goes into it, the tradeoffs, and why choices are so critical to safe learning. Proper choice is key to surviving the dangerous learning phase. Section 6 explores how to get more out of the sport, like traveling with gear, photography, and other uses.

Fundamentals of Wind Energy Nicholas P. Cheremisinoff, 1978

Field Artillery Meteorology United States. Department of the Army, 1978

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