

comparison of wind tunnel and full-scale aerodynamic sail ... - in this paper the comparison of aerodynamic sail force measurements from model scale wind tunnel and full-scale tests is presented. wind tunnel testing of yacht sails is an effective design tool, but is at present mainly used for comparative testing. **drag coefficients of lattice masts from full-scale wind ...** - the results of the full-scale tests show that the drag coefficients of the masts have lower values than those obtained from the scaled tests for turbulent wind and higher for winds with low turbulence. **measurement of the aerodynamic ventilation drag of ...** - measurement of the aerodynamic ventilation drag of passenger car wheels within the framework of a three-year research project by the research association of automotive technology (fat), the institute of internal **distributed measurement of aerodynamic loads - citeseerx** - on a full-scale aircraft so that the drag coefficient can be determined for the full-scale device at the full-scale reynolds number. at that point, the wind tunnel data can be correlated to the full-scale drag coefficients by comparing the flight test data with the front hatch measurements in the wind tunnel. it should be noted that most of the protuberances investigated during the effort ... **scaling techniques using cfd and wind tunnel measurements ...** - the wind tunnel model might not have all the details (such as antennas and gaps etc) as the full scale aircraft and this will typically have an impact on the estimated drag of the aircraft. **fullscale hydrodynamic force measurement on the berlin ...** - full scale boat the entire rigging is connected to an inner structure which, itself, is supported by six load cells within the hull "altogether forming a six component base" **results from long-term measurement in piles of drag load ...** - results from long-term measurement in piles of drag load and down drag bengt h. fellenius, dr.tech., p.eng. summary several full-scale, long-term tests on instrumented piles performed since the 1960s through the 1990s are presented. the results of the tests show that large drag load will develop in piles installed in soft and loose soils. the test cases are from norway, sweden, japan, canada ... **study on drag coefficient for the flow past a cylinder** - re and the full scale re. for a circular cylinder, re number can be computed via equation 1. $Re = \frac{\rho u d}{\mu}$ # (1) re is the reynolds number of the shape; u is the wind velocity in unobstructed flow, d is the diameter of the cylinder and μ is the kinematic viscosity of air. many researches had been carried out to predict the variation of coefficient of drag vs. reynolds number for circular cylinder ... **heavy vehicle drag reduction: experimental evaluation and ...** - full-scale testing "base flaps - over 6% fuel used reduction seen in on-road evaluations" "coanda blowing - ~4% fuel used reduction but significant system" **prediction of ship resistance using model tests** - prediction of ship resistance using model tests for all model tests, we have to choose a scale, "», for the model. the size of the model will be restricted by the size of the tow tank facilities, available carriage speeds, and instrumentation. generally, the bigger the model the better. in practice, a 6 meter long model is the norm for conventional displacement vessels in large test facilities ... **spatial distribution of pressure drag acting on ...** - 1 spatial distribution of pressure drag acting on rectangular 2 block arrays with various layouts 3 ... flow. eaton and mayne (1975) performed full-scale experiments for wind pressure coefficients of two-story homes in adlesbury, london. wind tunnel experiments on an isolated building have also been performed and validated by comparing these results with the full-scale data (okada and ha, 1991 ... **the influence of the phase difference between the crank ...** - one experiment involved measurement of the drag acting on two full-scale human models on a tandem. these two human models can pedal the tandem. in the other experiment, two oscillating cylinders were used as a simplified model of the legs of the pilot and the stoker. these were arranged to represent the legs of the riders on a tandem. measurements of the drag on this model were made. it was ... **drag measurements through wake analysis** - figure 4 shows the full-scale ahmed body. to get the dimensions used in the laboratory exercise to get the dimensions used in the laboratory exercise you must scale the full-scale model by 1:4.17. **lab - force measurement in a subsonic wind tunnel** - $drag(lbf) = c_d \frac{\rho}{2} v^2 A$ vlift channel ... tunnel data in terms of a full scale vehicle. the wind tunnel used in these experiments is of the open-return type

(figure 2). air is drawn from the room into a large settling chamber (1) fitted with a honeycomb and several screens. the honeycomb is there to remove swirl imparted to the air by the fan. the screens break down large eddies in the flow and smooth ... **summary report on an sssv 'uncle john'** - the full-scale measurement programme and data acquisition system have been described by jackson (1987), and in an abridged published form by jackson and wilson (1988).

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