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## **Wind Tunnel Model Systems Criteria**

Mandatory Facility: A wind tunnel facility that shall abide by the criteria established by this document. k. Model Systems: Model systems covered by this handbook are defined as models, flow survey devices, splitter plates, model support hardware including force balances (Section 2.14 only), and stings.

## **Wind-Tunnel Model Systems Criteria - NASA**

documentation of wind-tunnel model systems to be tested at Langley Research Center (LaRC). b. The criteria contained in this directive are intended

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to prevent model system failure and/or facility damage. c. The requirements in this directive are mandatory for model systems to be tested in

## **Wind-Tunnel Model Systems Criteria - NASA**

The criteria are intended to prevent model system loss and/or potential facility damage. The purpose of these requirements is to allow wind tunnel model systems with sufficient fidelity to be tested in wind tunnel environments at LaRC. As a result, the design requirements are not as conservative as building standards and therefore, shall

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## **NASA Glenn Wind Tunnel Model Systems Criteria**

This report describes criteria for the design, analysis, quality assurance, and documentation of models that are to be tested in the wind tunnel facilities at the NASA Glenn Research Center. This report presents two methods for computing model allowable stresses on the basis of the yield stress or ultimate stress, and it defines project procedures to test models in the NASA Glenn ...

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## **Wind Tunnel Model Systems Criteria Nasa**

Wind-tunnel testing of full/model-scale components is a widely employed technique that guides detailed design de- cisions in thermal-fluid systems and allows for fundamental

## **(PDF) Fundamentals of Wind-Tunnel Design**

Measurement of aerodynamic forces. Air velocity and pressures are measured in several ways in wind tunnels. Air velocity through the test section is determined by Bernoulli's principle.Measurement of the dynamic pressure, the static pressure, and (for compressible flow

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only) the temperature rise in the airflow. The direction of airflow around a model can be determined by tufts of yarn attached ...

### **Wind tunnel - Wikipedia**

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Aerodynamicists use wind tunnels to test models of proposed aircraft and engine components. During a test, the model is placed in the test section of the tunnel and air is made to flow past the model. Various types of tests can be conducted in a wind tunnel. Force balances are used to directly measure the aerodynamic forces and moments on the

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model.

## **Model Mounts - NASA**

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## **NASA Technical Reports Server (NTRS)**

1.1 Types of wind tunnels . Wind tunnels can be classified using four different criteria. Type I classification - Open vs closed circuit wind tunnel. In open-circuit (open-return) wind tunnel, the air is drawn directly from the surroundings into the wind tunnel and rejected back into the surroundings, the wind tunnel is said to have an open-air ...

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### **MODEL SYSTEMS CRITERIA Clarence P. Young, Jr. NASA Langley ...**

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