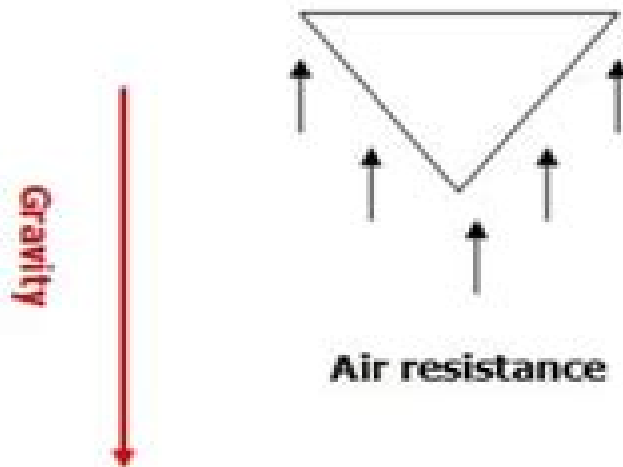


Diagram 1.

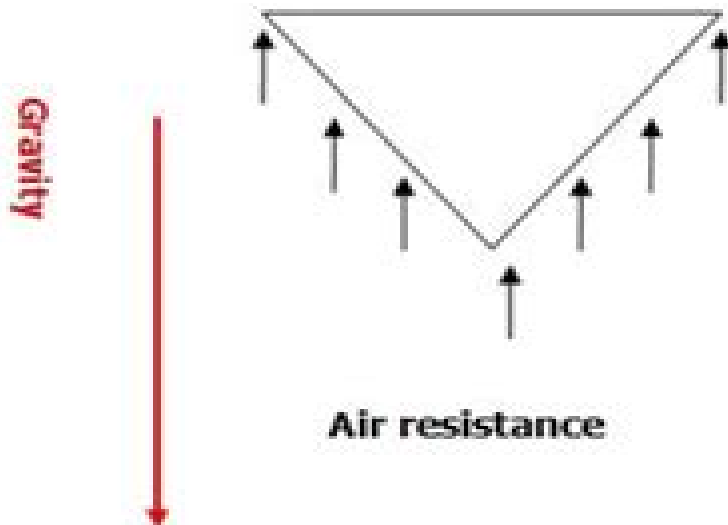
Parachute with small surface area



Less particles hit so  
the parachute fell  
faster.

Diagram 2.

Parachute with large surface area



More particles hit so  
the parachute fell  
slower.

# Gcse Physics Parachute Experiment Mass

**H. G. Heinrich, L. W. Rust (Jr.)**



## **Gcse Physics Parachute Experiment Mass:**

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**Experimental Investigation of Added Mass During Parachute Deceleration** Brad Charles Cochran,1991 Theory and Experiment on Parachute Opening Shock and Filling Time Helmut G. Heinrich,University of Minnesota. Department of Aerospace Engineering and Mechanics,Royal Aeronautical Society,1971 A method of parachute opening force and filling time calculation is presented which is based on the time functions of aerodynamic drag included air mass apparent mass and effective porosity Using the momentum and continuity equations an idealized canopy shape development and a linear drag area time relationship expressions are obtained for the canopy volume and velocity The calculated peak forces agree well with at least mean square averages of field test results of 28 ft solid flat parachutes deployed at speeds from 175 to 450 fps at altitudes of 6 000 13 000 and 21 000 ft and with suspended weights between 200 and 820 lb

**Experimental Determination of Parachute Apparent Mass and Its Significance in Predicting Dynamic Stability** T. Yavuz,D. J. Cockrell,American Institute of Aeronautics and Astronautics,1981

**Flight Test of a 31.2-foot-diameter Modified Ringsail Parachute Deployed at a Mach Number of 1.39 and a Dynamic Pressure of 11.0 Pounds Per Square Foot** John S. Preisser,Clinton V. Eckstrom,Harold N. Murrow,1967

*Techniques for Selection and Analysis of Parachute Deployment Systems* Earle K. Huckins,1970

Experimental Determination of Parameters for the Calculation of Parachute Filling Times Rudi J. Berndt,Air Force Flight Dynamics Laboratory (U.S.),Wissenschaftliche Gesellschaft für Luft- und Raumfahrt,Deutsche Gesellschaft für Raketentechnik und Raumfahrt,1964 The filling or inflation process of a flat circular solid cloth type parachute canopy operating under finite mass conditions is analyzed in detail Experimental test results acquired during model tests in wind tunnels and during full scale tests on personnel and air drop type parachute canopies at altitudes between sea level and 21 000 feet form the basis for the analysis Parameters and relationships acquired as a result of the experimental test programs or derived analytically are expressed in mathematical terms so that they may be used directly for the solution of the mass balance and instantaneous velocity equations upon which the calculations of parachute filling time is based The parameters and relationships concern the shape of the inflating canopy the growth of the drag area of the canopy the canopy flow velocities and growth of the air volume enclosed by the drag producing surface and the instantaneous velocity of the load parachute configuration

*Determination of the Mass Flow Through Parachute Canopies in Subsonic and Supersonic Flow*

R. J. Niccum, The success of any parachute system is measured by its performance during the opening sequence and its performance during steady state operation Earlier presentations in this course have shown that the parachute opening time and opening force are important dynamic parameters which may be used in determining a parachute's desirability for certain applications Similarly the steady state aerodynamics such as tangent force coefficient normal force coefficient and moment derivative with respect to angle of attack are among the parameters employed for gaging a parachute's steady state worthiness The purpose of this presentation is to bring to your attention still another parameter that is useful in the design and evaluation of the performance characteristics of parachute systems namely the mass flow through a canopy both during its inflation and its steady descent

*Dynamics of Parachute Inflation* H. G. Heinrich, 1969 The study is concerned with identification of significant terms in the process of parachute inflation For finite mass cases the equations of motion for parachutes inflating in free air and in wind tunnel experiments are established and organized in view of the nonsteady terms of canopy size systems velocity included and apparent masses and the time derivatives of these terms Wind tunnel experiments are described the results of which yield graphical and numerical time functions for the significant terms of the equation of motion and the force time histories The wind tunnel results are compared with full size test information and certain identities are shown The significant terms are combined to functions unique for the test conditions and substituted in the equation of motion Force time functions so derived compare satisfactorily with measured force histories and the contributions of the individual terms to the instantaneous parachute force can be seen

**An Experimental Investigation of Model Parachutes Under Finite Mass Conditions** Herbert R. Brown, AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING., 1975 A two part experimental investigation was undertaken The first part was to develop testing techniques for a finite mass test fixture The test fixture is designed such that a model parachute and load are free to move along a wire track through a wind tunnel test section Also a servomechanism simulated the component of force due to gravity acting on the load The second part was to test the feasibility of using mass ratios as similarity parameters for wind tunnel testing of model parachutes Tests were conducted to determine the friction force of the wire track on the test load of varying weights and for varying degrees of lubrication Graphite lubrication of the wire track reduced the friction force and adjustments to the servomechanism were developed which compensate for this reduced friction force

**Dynamic Stability of a Parachute Point-mass Load System** H. G. Heinrich, L. W. Rust (Jr.), 1965 The dynamic stability of a parachute load system has been analytically investigated for a pointmass load and a statically stable parachute A typical system consisting of a relatively large suspended load mass and small ribless guide surface parachute has been numerically calculated Utilizing the apparent mass and apparent moment of inertia as well as the aerodynamic coefficients of the parachute canopy the equations of motion for the system have been solved The influence of several design parameters upon the dynamic stability characteristics of the system have been discussed

*Program Plan for Measurement*

*of Apollo Parachute Pressure, Strain, Load Shape, and Added Mass* M. R. Bottoroff, Northrop Corporation. Ventura Division, Manned Spacecraft Center (U.S.), 1969 The results of a study on parachute measurements conducted as part of an overall study on Apollo parachute analysis methods are presented The experimental measurements required to implement improved load and stress prediction methods are reviewed Information on several currently available pressure transducers is presented and a number of conceptual techniques for measuring load and strain in canopy structural numbers are discussed The added mass concept in parachute dynamic analysis is discussed and wind tunnel and flight test techniques for measuring added mass are indicated A test plan for Apollo parachutes is presented consisting of a laboratory phase a wind tunnel phase and a flight test phase

**Note on Analysis of the Opening Shock of Parachutes at Various Altitudes** Theodore Von Kármán, United States. Army Air Forces. Scientific Advisory Group, High decelerations up to 33g were measured on parachutes launched at 40 000 ft altitude This appears surprising since the theoretical prediction was made that the deceleration shock of a parachute launched at a true airplane speed proportional to the terminal velocity of a falling man should be independent of the altitude It is shown that this theory is in error because it does not take into account the so called apparent mass of the parachute i e the inertia of the air moving with the parachute This additional mass is of course proportional to the density of the air at the given altitude and many times larger than the mass of the parachute itself even considerably larger than the mass of the man In this note the attempt is made to give the correct methods of analysis Certain proposals are made for further experimentation

**Flight Test of a 31.2-foot-diameter Modified Ringsail Parachute Deployed at a Mach Number of 1.39 and a Dynamic Pressure of 11.0 Pounds Per Square Foot**, 1967

**Investigation of an Inflating Parachute Under Finite Mass Conditions** Allen Edward Winkelmann, 1967

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