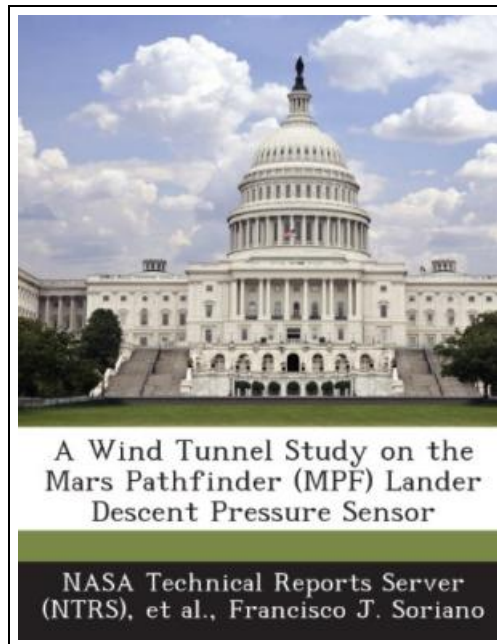


## A Wind Tunnel Study on the Mars Pathfinder (Mpf) Lander Descent Pressure Sensor



Filesize: 5.26 MB

### **Reviews**

*This book is great. I have go through and so i am confident that i will going to read through once again again in the future. I am just easily can get a satisfaction of looking at a written book.*  
*(Miss Vernie Schimmel)*

## A WIND TUNNEL STUDY ON THE MARS PATHFINDER (MPF) LANDER DESCENT PRESSURE SENSOR



To get **A Wind Tunnel Study on the Mars Pathfinder (Mpf) Lander Descent Pressure Sensor** PDF, remember to refer to the button below and save the document or get access to other information which might be in conjunction with A WIND TUNNEL STUDY ON THE MARS PATHFINDER (MPF) LANDER DESCENT PRESSURE SENSOR book.

Bibliogov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 30 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. The primary focus of this study was to determine the accuracy of the Mars Pathfinder lander local pressure readings in accordance with the actual ambient atmospheric pressures of Mars during parachute descent. In order to obtain good measurements, the plane of the lander pressure sensor opening should ideally be situated so that it is parallel to the freestream. However, due to two unfavorable conditions, the sensor was positioned in locations where correction factors are required. One of these disadvantages is due to the fact that the parachute attachment point rotated the lander's center of gravity forcing the location of the pressure sensor opening to be off tangent to the freestream. The second and most troublesome factor was that the lander descends with slight oscillations that could vary the amplitude of the sensor readings. In order to accurately map the correction factors required at each sensor position, an experiment simulating the lander descent was conducted in the Martian Surface Wind Tunnel at NASA Ames Research Center. Using a 115 scale model at Earth ambient pressures, the test settings provided the necessary Reynolds number conditions in which the actual lander was possibly subjected to during the descent. In the analysis and results of this experiment, the readings from the lander sensor were converted to the form of pressure coefficients. With a contour map of pressure coefficients at each lander oscillatory position, this report will provide a guideline to determine the correction factors required for the Mars Pathfinder lander descent pressure sensor readings. This item ships from La Vergne, TN. Paperback.



[Read A Wind Tunnel Study on the Mars Pathfinder \(Mpf\) Lander Descent Pressure Sensor Online](#)

[Download PDF A Wind Tunnel Study on the Mars Pathfinder \(Mpf\) Lander Descent Pressure Sensor](#)

## See Also



**[PDF] Animalogy: Animal Analogies**

Follow the web link below to read "Animalogy: Animal Analogies" PDF document.

[Download ePub](#)

»



**[PDF] Molly on the Shore, BFMS 1 Study score**

Follow the web link below to read "Molly on the Shore, BFMS 1 Study score" PDF document.

[Download ePub](#)

»



**[PDF] The Whale Tells His Side of the Story Hey God, Ive Got Some Guy Named Jonah in My Stomach and I Think Im Gonna Throw Up**

Follow the web link below to read "The Whale Tells His Side of the Story Hey God, Ive Got Some Guy Named Jonah in My Stomach and I Think Im Gonna Throw Up" PDF document.

[Download ePub](#)

»



**[PDF] Good Night, Zombie Scary Tales**

Follow the web link below to read "Good Night, Zombie Scary Tales" PDF document.

[Download ePub](#)

»



**[PDF] God Loves You. Chester Blue**

Follow the web link below to read "God Loves You. Chester Blue" PDF document.

[Download ePub](#)

»



**[PDF] Viking Ships At Sunrise Magic Tree House, No. 15**

Follow the web link below to read "Viking Ships At Sunrise Magic Tree House, No. 15" PDF document.

[Download ePub](#)

»