

PRESSURE AND TEMPERATURE SENSITIVE PAINTS%0A

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Pressure and Temperature Sensitive Paint Pressure Sensitive Paints (PSP) and Temperature Sensitive Paints (TSP) are optical sensors for measuring the temperature and pressure of a remote surface. These sensors are based on the quenching of luminescent molecules that are sensitive to the local temperature or pressure. The following document describes the basics of TSP and PSP. More detailed

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Luminescent molecule sensors, called pressure-sensitive paint (PSP) and temperature-sensitive paint (TSP), measure factors essential for understanding the aerodynamic performance and heat transfer cha

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PDF Pressure and Temperature Sensitive Paints

The foundations of pressure- and temperature-sensitive paints (PSP and TSP) for aerodynamic measurements are the oxygen and thermal quenching mechanisms of thin luminescent polymer coatings

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Pressure Sensitive Paint Experimental Techniques Optical

Pressure - Temperature paints Pressure sensitive molecule Temperature sensitive molecule Advantages: Measure temperature to compensate for temperature sensitivity of PSP. This technique requires all four images to be aligned. Intensity Method Dual probe 613 741 0 0.2 0.4 0.6 0.8 1 1.2 500 525 550 575 600 625 650 675 700 725 750 775 800 Wavelength Normalized Intensity. Pressure-Sensitive

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Pressure and Temperature Sensitive Paints Tianshu Liu

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Pressure and Temperature Sensitive Paints Encyclopedia

The foundations of pressure- and temperature-sensitive paints (PSP and TSP) for aerodynamic measurements are the oxygen and thermal quenching mechanisms of thin luminescent polymer coatings applied to a solid surface. The technical aspects of PSP and TSP include the photophysics, paint formulations, calibration, measurement systems, image/data processing, measurement uncertainty, and applications in wind tunnel testing. Since PSP and TSP as luminescent molecule sensors have similar

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Pressure and temperature sensitive paints eBook 2005

Pressure and temperature sensitive paints. [T Liu; J P Sullivan] -- "This book helps the reader to understand the physics and chemistry and the capabilities of PSP and TSP. It provides an overview of the wide scope of applications and explains the system requirements

http://www.thunder-girls.de/Pressure_and_temperature_sensitive_paints__eBook__2005-_.pdf

Using Pressure and Temperature Sensitive Paint for Global

Pressure Sensitive Paint (PSP) and Temperature Sensitive Paint (TSP) were used to visualize and quantify the surface interactions of reaction control system (RCS) jets on the aft body of capsule reentry vehicle shapes.

http://www.thunder-girls.de/Using_Pressure__and_Temperature_Sensitive_Paint_for_Global-_.pdf

Temperature Dependence of Pressure Sensitive Paints AIAA

(2002) Temperature-corrected pressure-sensitive paint measurements using a single camera and a dual-lifetime approach. Measurement Science and Technology 13 :10, 1552-1557 Online publication date: 1-Oct-2002.

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Pressure Sensitive Paint Effect of Substrate

There are numerous ways in which pressure-sensitive paint can be applied to a surface. The choice of substrate and application method can greatly affect the results obtained. The current study examines the different methods of applying pressure-sensitive paint to a surface. One polymer-based and two porous substrates (anodized aluminum and thin-layer chromatography plates) are investigated and compared for luminescent output, pressure sensitivity, temperature sensitivity and photodegradation

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Pressure and Temperature Sensitive Paints Liu Major

The foundations of pressure and temperature sensitive paints (PSP and TSP) for aerodynamic measurements are the oxygen and thermal quenching mechanisms of thin luminescent polymer coatings applied to a solid surface.

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Pressure and Temperature Sensitive Paint

Pressure and Temperature Sensitive Paint PSP and TSP measurement techniques allow the recovery of global pressure and temperature distributions on aerodynamic test articles. PSP measurements exploit the susceptibility of luminescent probe molecules to collisional deactivation, or quenching, by molecular oxygen (O₂).

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Surface Pressure Measurements on Supercritical Airfoil

Pressure-sensitive paint (PSP) technique has been broadly employed for qualitative and quantitative purposes in engineering and laboratory because of its prominent advantages of time-saving, cost-efficient and continuous pressure distribution since late 1980s, despite of its potential for more precise accuracy.

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