
High Temperature Gas Thermometry Carnegie Institution

high temperature gas thermometry and the platinum metals - high temperature gas thermometry and the platinum metals some aspects of nineteenth century developments by ian e. cottoy the johnson matthey group **development of the phosphor thermometry technique for ...** - phosphors suitable for use in high temperature gas turbine applications. a calibration of their response is described a calibration of their response is described herein and they are shown to be temperature sensitive over a range from room temperature to in excess of 1200 °C and **low temperature thermometry - national physical laboratory - low temperature thermometry** thursday 24th november 2005 st. hugh's college st margaret's road, oxford, ox2 6le cryogenics is an important enabling technology for a wide variety of activities and processes in industry, medicine and scientific research. good thermometry is essential to the successful production and exploitation of low temperatures, through liquid nitrogen to liquid helium and ... **e2t infrared temperature measurement systems infrared ...** - e2t infrared temperature measurement systems e2t pulsar 4 / pulsar 4 advanced infrared thermometry for sulfur reactors and other high temperature furnaces • single channel standard model programmable for gas or refractory measurement • two channel advanced model with simultaneous measurement of refractory and gas temperatures • separate channel analog outputs and alarm relay set points ... **infrared thermometry for sulfur reactors and other high ...** - infrared thermometry for sulfur reactors and other high temperature furnaces • single channel standard model programmable for gas or refractory measurement • two channel advanced model with simultaneous measurement of refractory and gas temperatures • separate channel analog outputs and alarm relay set points • instant or average readings • smart fma™ flame measurement algorithm ... **high-speed planar thermometry and velocimetry using ...** - high-speed planar thermometry and velocimetry using thermographic phosphor particles ... : 29 march 2013 the author(s) 2013. this article is published with open access at springerlink abstract simultaneous gas-phase temperature and velocity imaging using micrometer-size thermographic phosphor particles seeded into the flow is demonstrated at a 3 khz repetition rate. the velocity field is ... **dielectric-constant gas thermometry - iopscience** - by dielectric-constant gas thermometry bernd fellmuth, joachim fischer, christof gaiser et al.-determination of thermodynamic temperature and 4 he virial coefficients between 4,2 k and 27,0 k by dielectric constant gas thermometry h luther, k grohmann and b fellmuth-recent citations the revision of the si the result of three decades of progress in metrology michael stock et al-determinations ... **new approach to single-shot gas thermometry of high ...** - the values of the gas mixture temperature, which were defined from dual-broad band (dbb) gas spectra with linewidth corrections in a pressure range of 2-9 mpa, coincide with thermocouple measurements within ~ 2%, while without such a correction, the discrepancies increase up to 5%. **a probe for the measurement of high-temperature gases** - the 16th symposium on measuring techniques in transonic and supersonic flow in cascades and turbomachines 1 cambridge, uk september 2002 a probe for the measurement of high-temperature gases **ultrasonic al2o3 ceramic thermometry in high-temperature ...** - the in situ dynamic acquisition of temperature parameters in an ultra-high temperature environment (>1500 °C) for a long period of time (>0.5 h) is the universal test for any technology subject to military requirements. **europium-doped yttria-stabilized zirconia for high ...** - europium-doped yttria-stabilized zirconia for high-temperature phosphor thermometry j p feist and a l heyes* department of mechanical engineering, imperial college of science, technology and medicine, london, uk **infrared spectroscopy for high temperature estimation in gases** - en'urga inc. siemens westinghouse measurement methods (high temperature gas) spectroscopy using probes tomography noise thermometry emission spectroscopy (uv, nir, ir) **a flat flame burner for the calibration of laser ...** - provide a well-characterized high temperature source which other researchers in the field of laser-based thermometry can simply reconstruct and apply for their calibration and

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