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T1 - Below 1K. AU - McClintock, Peter V. E. N1 - Review of "Refrigeration and Thermometry below One Kelvin" by D. S. Betts, pp. x + 283, Sussex University, 1976.

Below 1K. - Research Portal | Lancaster University

The present status and problems of refrigeration and thermometry at microkelvin temperatures will be discussed. It will be shown that a better understanding of internal, time dependent heat leaks and of thermal boundary resistances as well as further progress in thermometry are necessary to reduce the present minimum temperature of about 10 MK to which matter has been refrigerated.

Nuclear refrigeration and thermometry at microkelvin ...

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thermometry at low temperatures below 1 K. To this end, a dilution refrigerator was constructed in-house that has four sintered silver discrete heat exchangers for use as a precooling stage of a copper nuclear demagnetization stage. A ^3He melting curve thermometer attached to the mixing chamber flange could be cooled continuously to

Dilution Refrigerator for Nuclear Refrigeration and ...

Betts D S 1976 Refrigeration and Thermometry Below One Kelvin (Brighton: Sussex University) Frossati G 1978 Obtaining ultra-low temperatures by dilution of ^3He into ^4He J. Physique C 39 1578 . Crossref .

Dilution refrigeration - IOPscience

Refrigeration and Thermometry Below One Kelvin, Sussex University Press, Brighton (1976)

Other Refrigerators - ScienceDirect

Refrigeration and thermometry Year:

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2014 Version: Final published version ... large superconducting magnets and base temperatures below 10 mK are offered by many suppliers as standard products. ... ing systems is one of the options to reach the microKelvin regime. Recently, successful operation of such a cryogen-free

Dry demagnetization cryostat for sub-millikelvin helium ...

Betts D S 1976 Refrigeration and Thermometry below One Kelvin (Brighton: Sussex University Press) Google Scholar . Betts D S 1989 An Introduction to Millikelvin Technology (Cambridge: Cambridge University Press) Google Scholar . BIPM 1979 Metrologia 15 65-8. IOPscience Google Scholar .

Thermometry below 1 K - IOPscience

For example, non-contact thermometry at lower temperatures has expanded into the non-metal working industry (e.g.

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plastics processing and production), maintenance and repair (e.g. non-destructive testing and evaluation), heat and refrigeration engineering and food processing, nearly all of which are at temperatures below 300°C.

Thermometry - an overview | ScienceDirect Topics

An immediate application field of solid-state refrigeration and thermometry is in ultra-sensitive radiation detection, which we discuss after this. The Review also gives a summary of pertinent ...

(PDF) Electronic refrigeration: Physics and applications

Electron thermometry and refrigeration with doped silicon and superconducting electrodes Article (PDF Available) in Journal of Applied Physics 94(12):7784 - 7788 · December 2003 with 142 Reads

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of the electron gas is determined by this

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distribution: refrigeration is equivalent to narrowing it, and thermometry is simply probing its convolution with a function characterizing the measuring device. Temperature exists, strictly speaking, only in quasi-equilibrium, where the distribution is the Fermi-Dirac one.

Electronic Refrigeration: Physics and Applications

(2015). One minute parity lifetime of a NbTiN Cooper-pair transistor. (2006). Opportunities for mesoscopics in thermometry and refrigeration: Physics and applications. (2005). Origin of switching noise in GaAs/AlGaAs lateral gated devices. (1992). Osmotic Pressure of ^3He in Liquid ^4He , with Proposals for a Refrigerator to Work below 1°K . (2010).

Magnetic refrigeration for nanoelectronics on a ... - CORE

thermometry and refrigeration are examined with an emphasis on experiments. An immediate application of solid-state refrigeration and

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thermometry is in ultrasensitive radiation detection, which is discussed in depth. This review concludes with a summary of pertinent fabrication methods of presented devices.

Opportunities for mesoscopics in thermometry and ...

REVIEW OF SCIENTIFIC INSTRUMENTS
85, 085106 (2014) Dry demagnetization cryostat for sub-millikelvin helium experiments: Refrigeration and thermometry I. Todoshchenko,^{1,a}) J.-P. Kaikkonen,¹ R. Blaauwgeers,² P. J. Hakonen,¹ and A. Savin¹ ¹Low Temperature Laboratory, O.V. Lounasmaa Laboratory, Aalto University, FI-00076 AALTO, Finland ²BlueFors Cryogenics Ltd, Arinatie 10, 00370 Helsinki, Finland

Todoshchenko, I.; Kaikkonen, J.-P.; Blaauwgeers, R ...

From the physicists' point of view cooling from 0.5 K to 0.005 K is as significant as cooling from 50 K to 0.5 K.

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Dilution refrigerators themselves are commonly used as a mere springboard for further coolings; see D. S. Betts, "Refrigeration and Thermometry below One Kelvin", Sussex University Press and Chatto and Windus Ltd., London 1976.

Towards the Absolute Zero | Johnson Matthey Technology Review

Currently, cryogenic refrigerators with ^3He gas are widely used for cooling below 1 Kelvin. However, usage of the gas has been increasingly difficult because of the current world-wide shortage. Therefore, it is important to consider alternative methods of refrigeration.

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