

**The Magnetocaloric Effect And Its Applications  
(Condensed Matter Physics)**

**By A.M. Tishin**

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has been recently found to show a significant magnetocaloric effect A.M. Tishin, Y.I Effect and its Applications, Series in Condensed Matter

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<http://www.sciencedirect.com/science/article/pii/S0304885304013927>

J. Phys.: Condens. Matter 21 (2009) 233201 Topical Review 1. Introduction

Magnetocaloric effects occur in any magnetic material due to the interdependence of thermal

[http://iopscience.iop.org/0953-8984/21/23/233201/pdf/0953-8984\\_21\\_23\\_233201.pdf](http://iopscience.iop.org/0953-8984/21/23/233201/pdf/0953-8984_21_23_233201.pdf)

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The Magnetocaloric Effect and Its Applications (Institute of Physics Magnetocaloric effect in Institute for Condensed Matter Physics,

<http://link.springer.com/article/10.1140%2Fepjb%2Fe2012-30359-8>

Measurements of the magnetocaloric effect in a single crystal nickel sphere have been carried out for applied fields from 90 to 900 oersteds for temperatures close to  $T_c$ .

<http://scitation.aip.org/content/aip/proceeding/aipcp/10.1063/1.2947047>

The Magnetocaloric Effect and Its Applications The magnetocaloric effect describes the change in temperature of a magnetic Condensed Matter Physics Series;

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The magnetocaloric effect, first discovered in iron by Emil Warburg (1881), describes the resulting change in temperature of a material due to the application of an  
<http://electrons.wikidot.com/magnetocaloric-effect>

The magnetocaloric effect (MCE) is the change of the temperature of magnetic materials under influence of the magnetic field in adiabatic conditions.  
<http://www.magnetocaloric.com/doc/mce.doc>

Introduction Theory Magnetocaloric effect in the phase transition region Methods of investigation of magnetocaloric properties Magnetocaloric effect in 3d metals and  
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The magnetocaloric effect (MCE), i.e., a temperature change in response to an adiabatic change of the magnetic field, has been widely used for refrigeration.  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3084140/>

The maximum possible magnetocaloric T effect V. I. Zverev,<sup>1,a</sup> A. M. Tishin,<sup>2</sup> and M. D. Kuz min<sup>3</sup> <sup>1</sup>Physics faculty, is a matter of priority.  
[http://www.amtc.ru/publications/articles/JAPIAU1074043907\\_1.pdf](http://www.amtc.ru/publications/articles/JAPIAU1074043907_1.pdf)

Magnetic refrigeration is a cooling technology based on the magnetocaloric effect. in Condensed Matter Physics at Low and its Applications  
[http://en.wikipedia.org/wiki/Magnetic\\_refrigeration](http://en.wikipedia.org/wiki/Magnetic_refrigeration)

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<http://www.google.com/patents/US20100146989>

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<http://www.slideshare.net/AlvarezAlonsoPablo/magnetocaloric-and-magnetovolume-effects-in-febased-alloys>

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1 Magnetocaloric effect and its implementation in critical behavior study of  $Mn_4FeGe_{3-x}Six$  intermetallic compounds Madhumita Halder and S. M. Yusuf a)  
<http://arxiv.org/pdf/1304.2465v1>

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<http://link.springer.com/article/10.1007/s00339-010-6105-2>

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