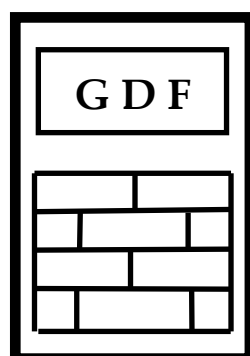


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(Erratum)

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Structural aspects of temperature phase transition in PTC-thermistors. II. Combined DTA and electric measurements

Positive Temperature Coefficient (PTC) thermistors show a transition at specific temperatures over which their resistance suddenly decreases. Structural significance of this transition is explained by Curie order-disorder transition (T_c) of magnetic domains [1]. However, this explanation is not based on solid experimental facts, so this is the goal of this series to evidence more structural aspects taking into account topoenergetic principles intensively and extensively applied to a large variety of systems in transformation (see this bulletin). A series of commercial PTC thermistors were analyzed in the previous note [2] by temperature dependence of electric resistance and their topoenergetic significance. Unfortunately, their composition and processing conditions are not available in view to correlate them with obtained results as in other similar cases.

Combined/simultaneous Differential Thermal Analysis (DTA) and electric measurements are thoroughly analyzed and retrieved in the present note in view to evidence the correlation between electric and thermal effects taking into account that calorimetry brings important structural information on transforming processes. It is considered one PTC specimen from the above mentioned commercial series, namely PTFL04BH471Q2N34B0 with T_c around 60 °C.

Experimental: Figure 1 shows the basic schematic of electric measurements and Figure 2 shows the basic assembly for combined measurements. It shows the differential thermocouple and the TO92 capsule of LM35CZ temperature sensor. All these are fixed on a rubber stopper on which a heating aluminum cylinder with non-inductive mantle will be applied (not shown). Constant and reproducible heating and cooling rates are realized by proper thermal insulation and dc voltage. All three signals (T , DTA and U_{out}) are previously adjusted in view to be measured by Picolog data logger with 20 bit resolution, 1 second reading rate on ± 1.25 V range. Picture in Figure 3 shows the final experimental disposition with significance of the main connections. The reference probe is chosen a ceramic capacitor with very close mass and dimensions with the PTC specimen. Both of them were tightly connected on thermocouple by using thermally shrinking tubes.

Results: Figures 4-6 show the electric and DTA results obtained for three values of U_s up to 1 V and Gain =1 of DTA signal (thermocouple directly connected to data logger). Cooling thermograms better evidence an exothermal process around T_c . Figures 8-12 show cooling DTA results with $U_s = 0.967$ mV and different Gain values by using an amplifier with LM358. The linear parameters mentioned on the graphs represent the baseline for $T < T_c$.

Figures 13-15 show the correlation of these parameters according to general topoenergetic significance. Gain results to be the governing potential for this series of cooling experiments.

Figures 16-19 show the heating and cooling DTA results for higher U_s voltages in view to evidence the influence on exothermal processes. U_{out} is properly adjusted in view to be under admitted limit of ± 1.25 V. Important to observe that: (i) U_s strongly influences the amplitude of exothermal processes; (ii) for both heating and cooling experiments, the processes around T_c are exothermal, but with different shapes; (iii) DTA signals are strongly noised as directly connected and through amplifier, even their amplitude are enough high and the similar experiments on different transforming systems showed smooth signals. Figures 20, 21 show the hysteresis effect of T_c .

Conclusion: The fact that for both heating and cooling experiments transitions are exothermal and taking into account that both DTA and electric measurements show reversible structure transformations, leads to conclusion that these involve an inductive element as in polymers [3] and aqueous solutions [4].

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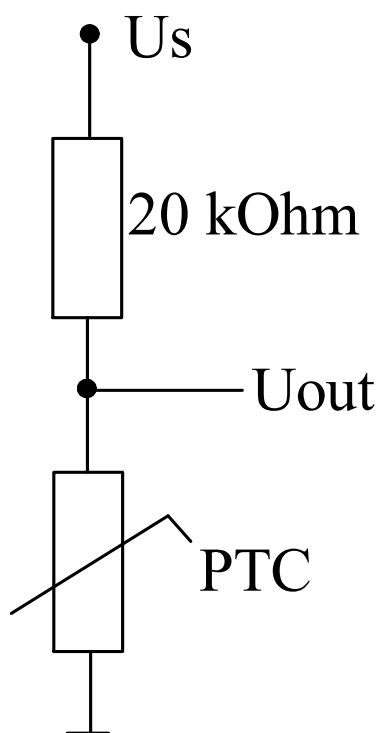


Figure 1. Electric schematic for evidencing Curie transition in $U_{out}(T)$.

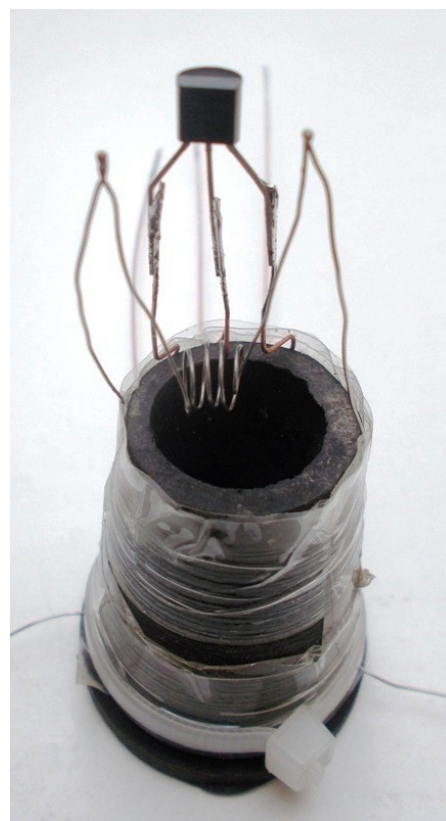


Figure 2. Basic assembly for combined DTA & electric measurements (see the test).

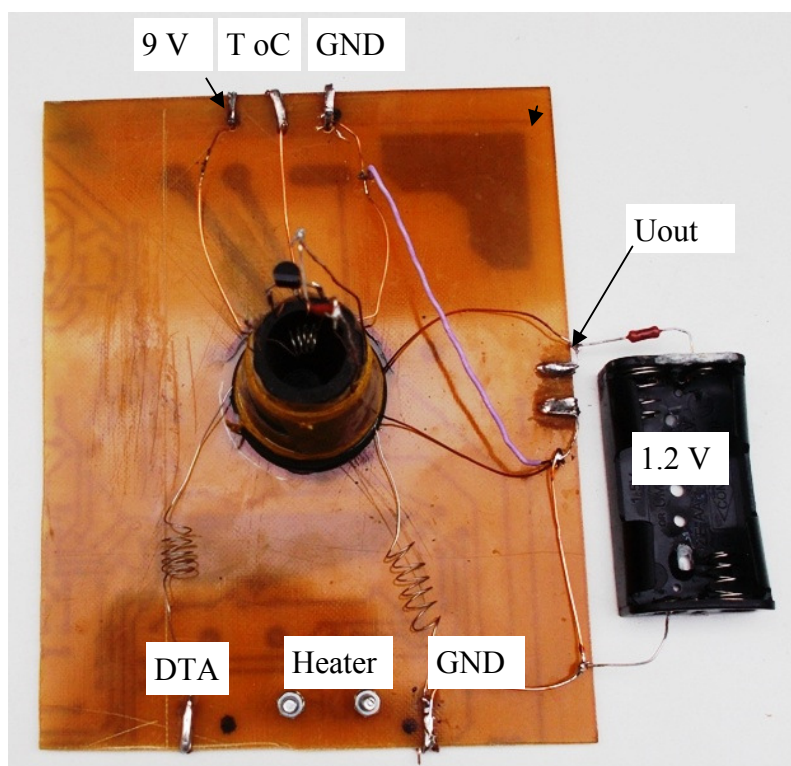


Figure 3. Overall assembly for combined measurements with significance of main connections (see the text).

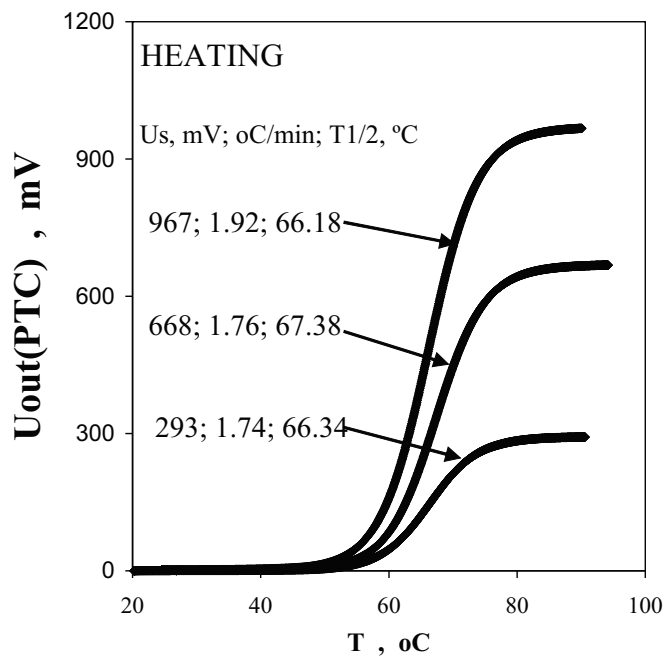


Figure 4.

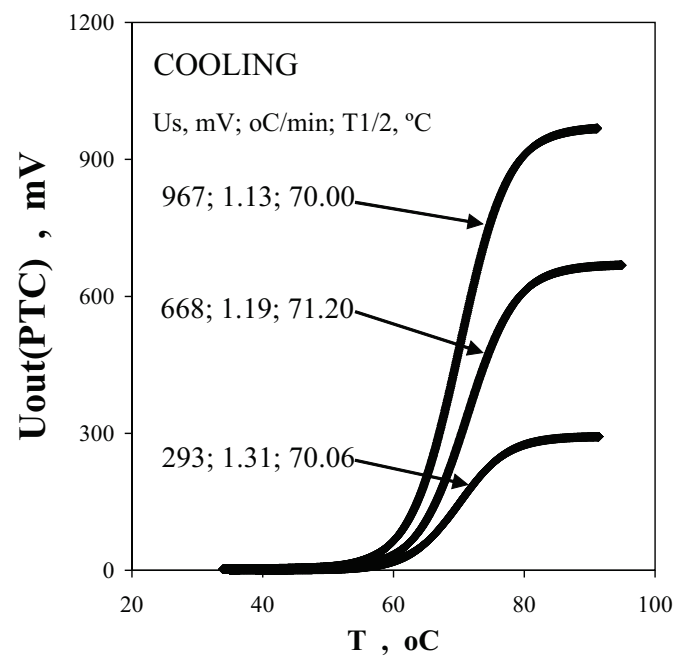


Figure 5.

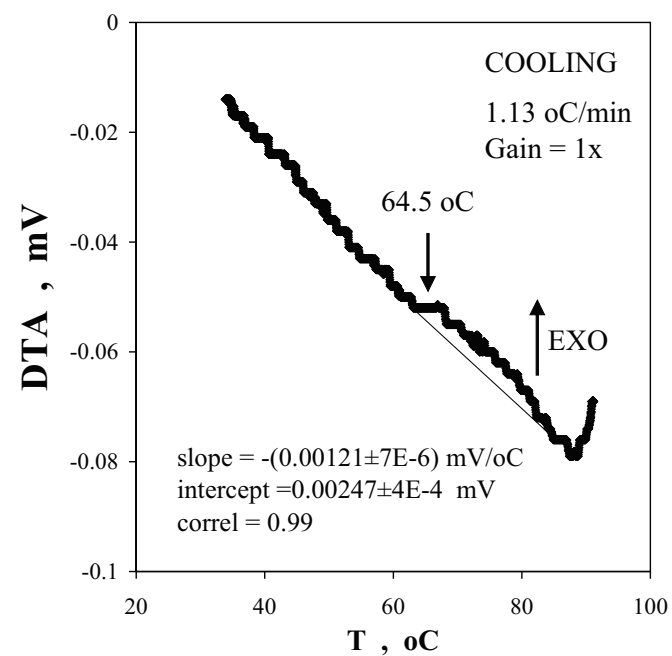


Figure 8.

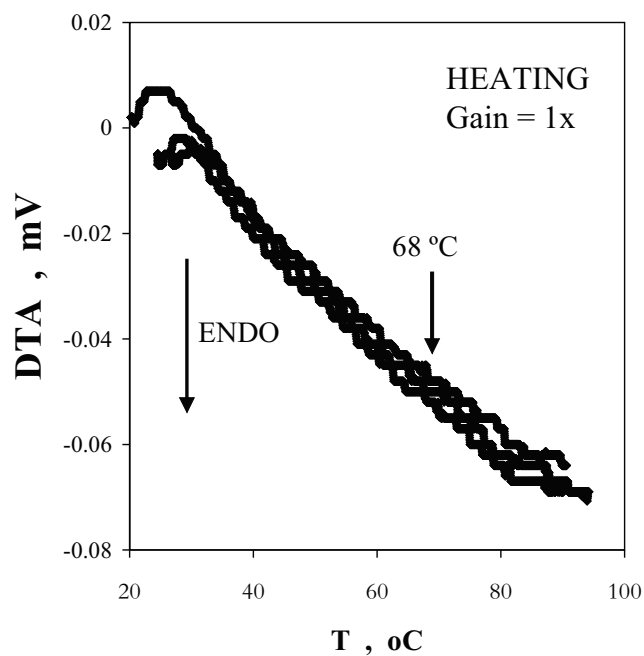


Figure 6.

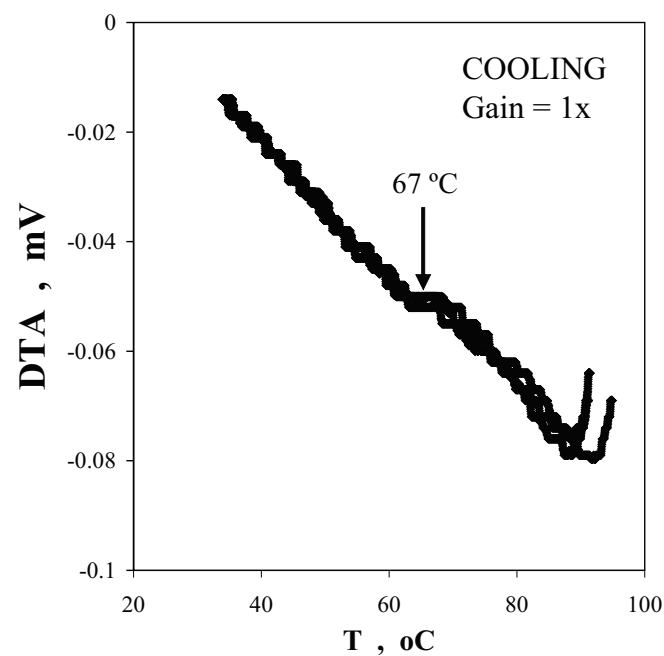


Figure 7.

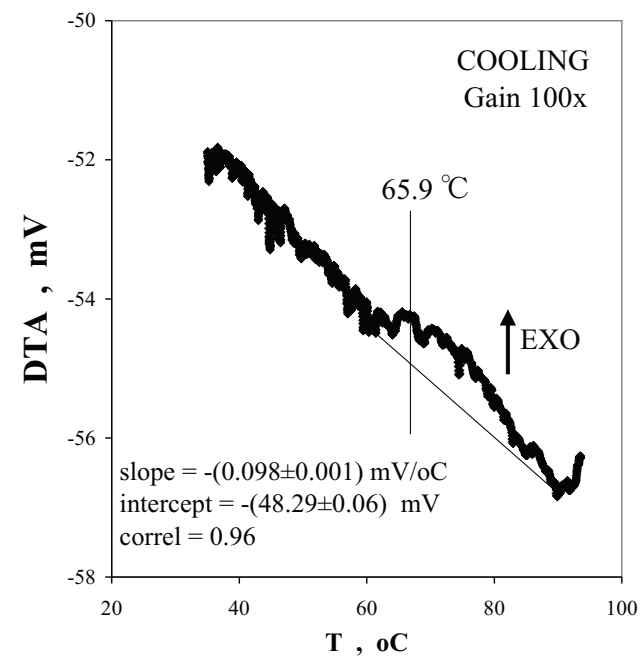


Figure 9.

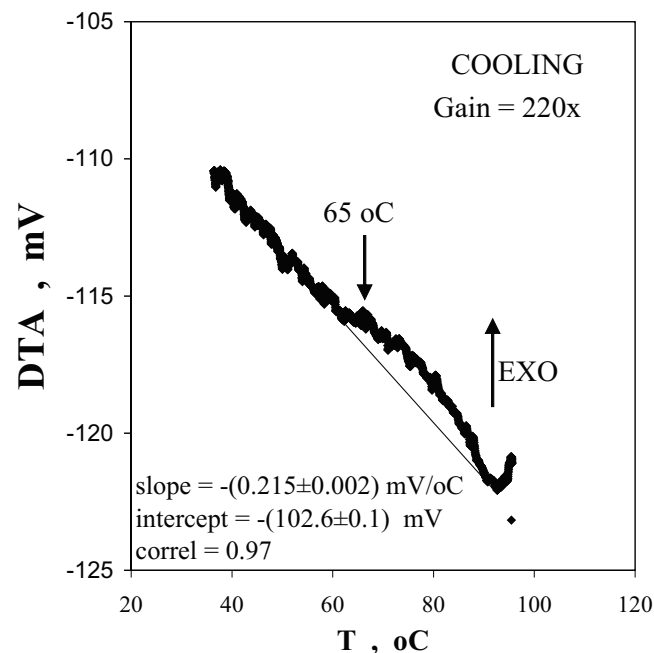


Figure 10.

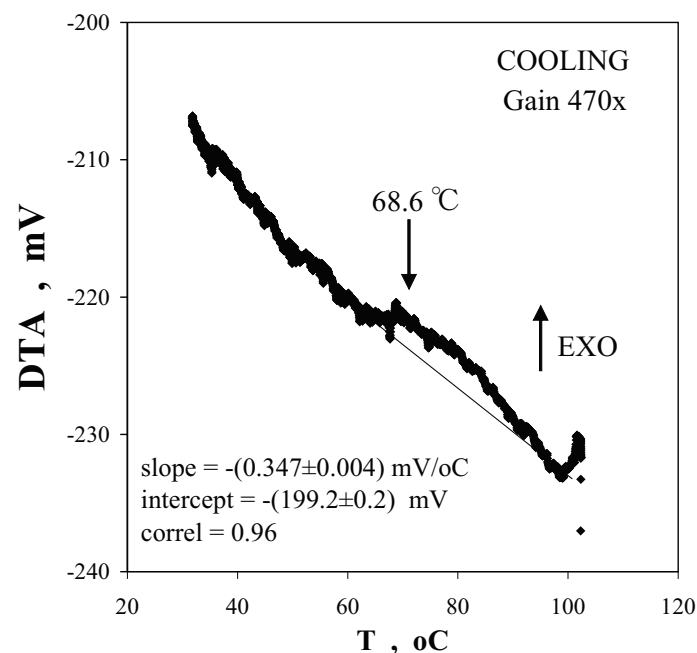


Figure 11.

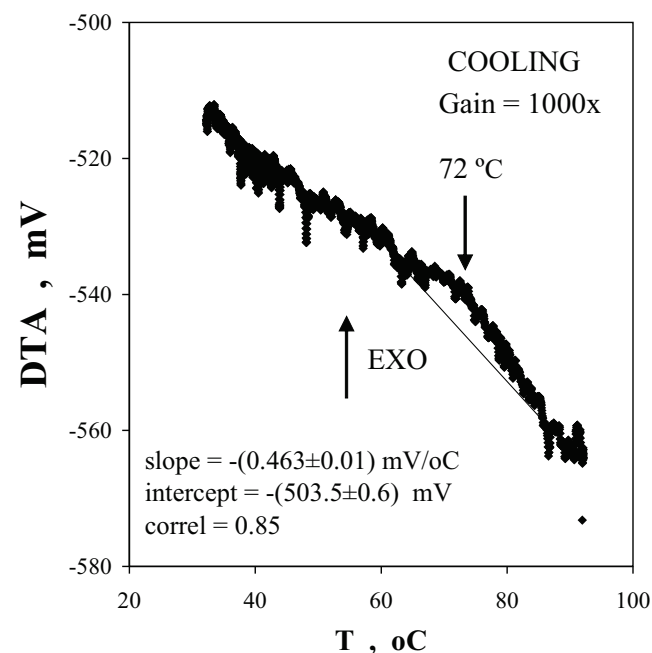


Figure 12.

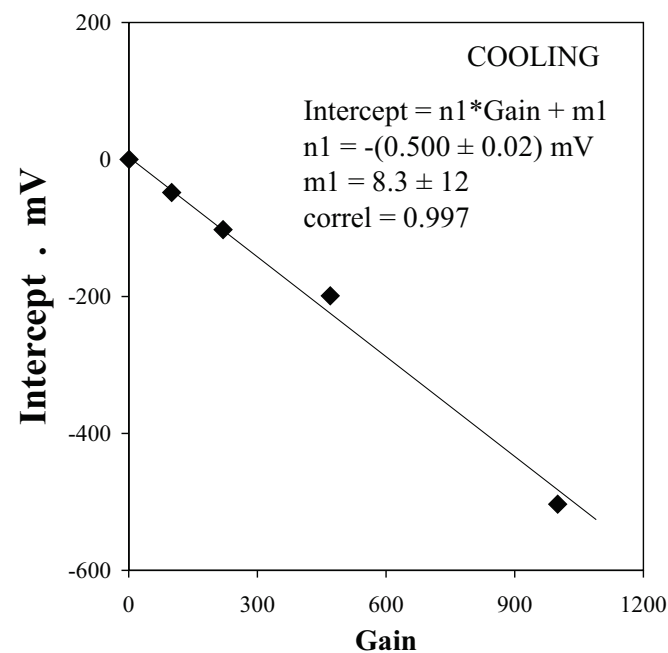


Figure 13.

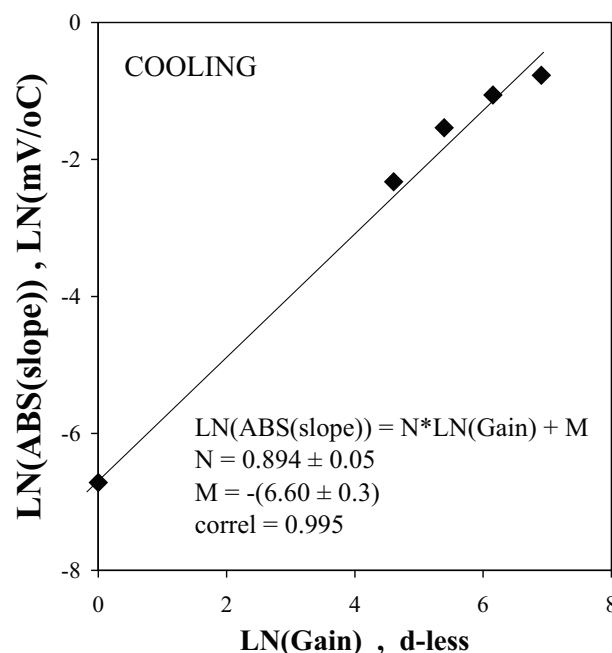


Figure 14.

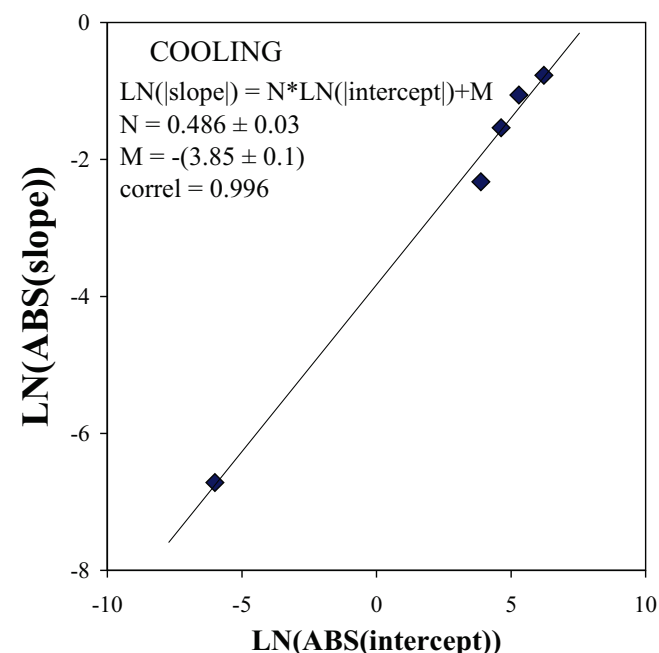


Figure 15.

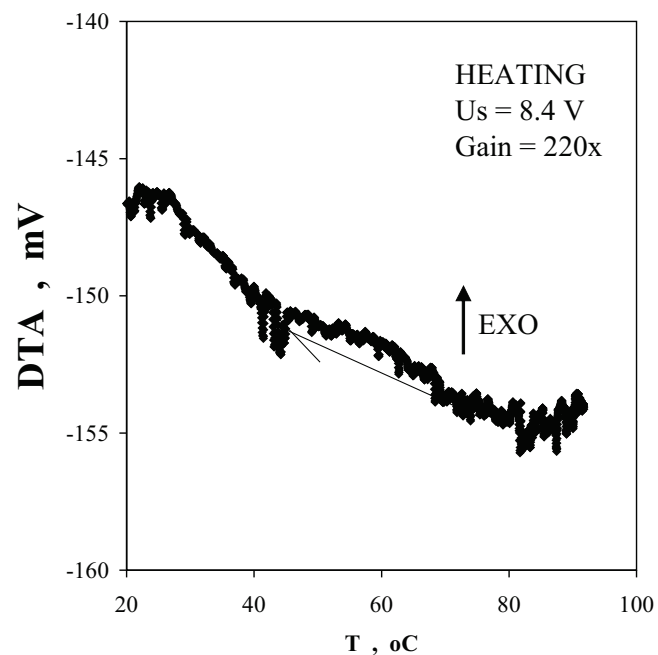


Figure 16.

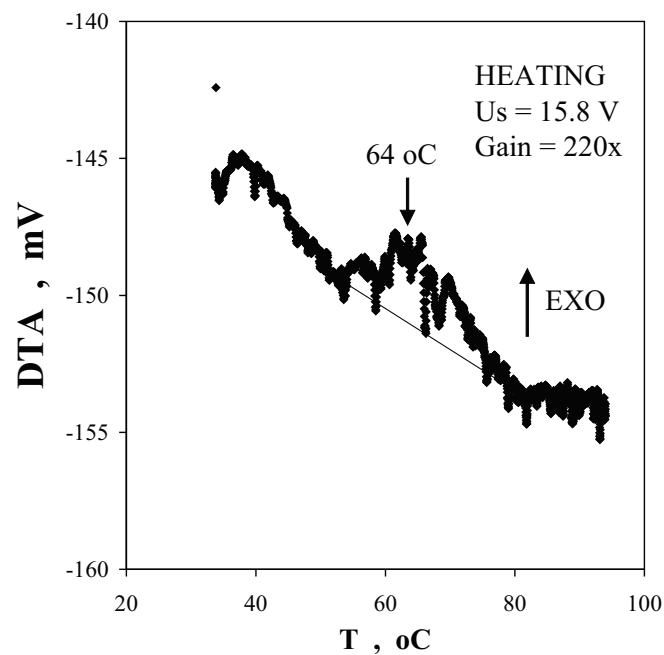


Figure 18.

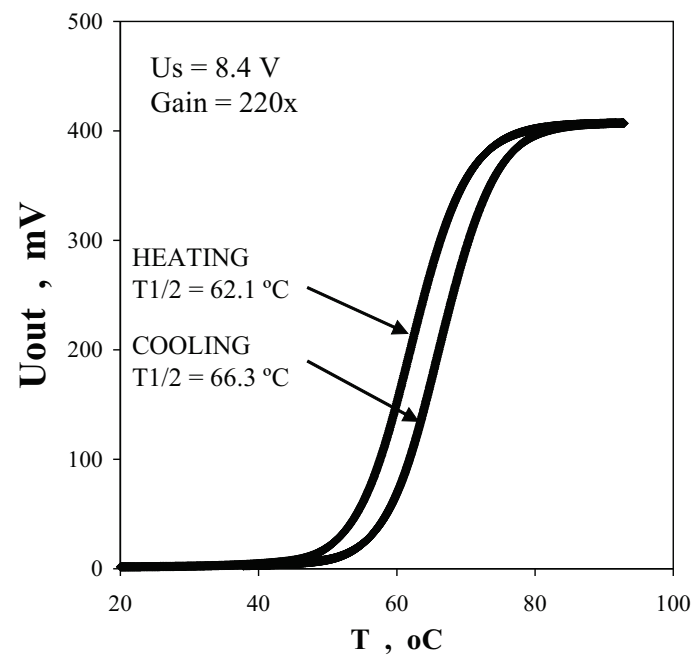


Figure 20.

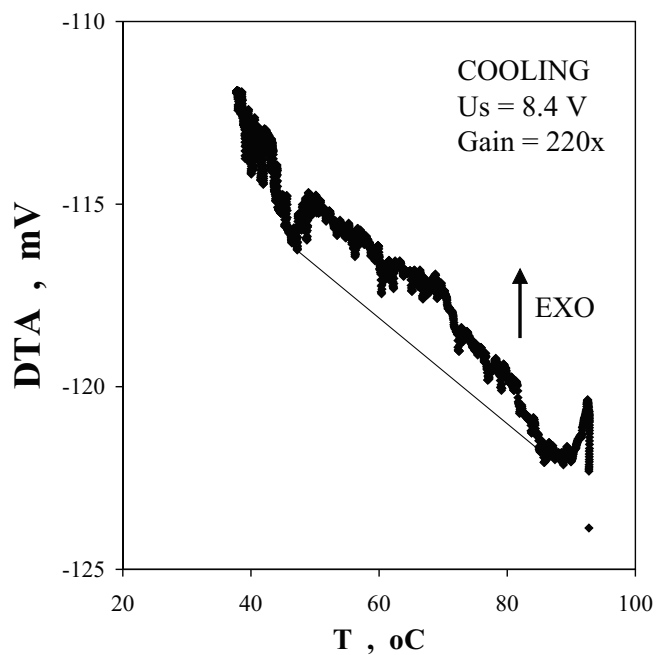


Figure 17.

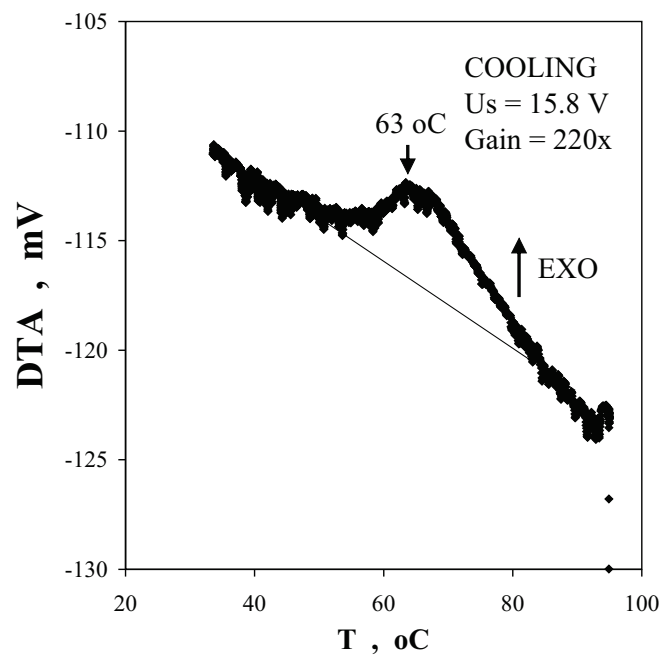


Figure 19.

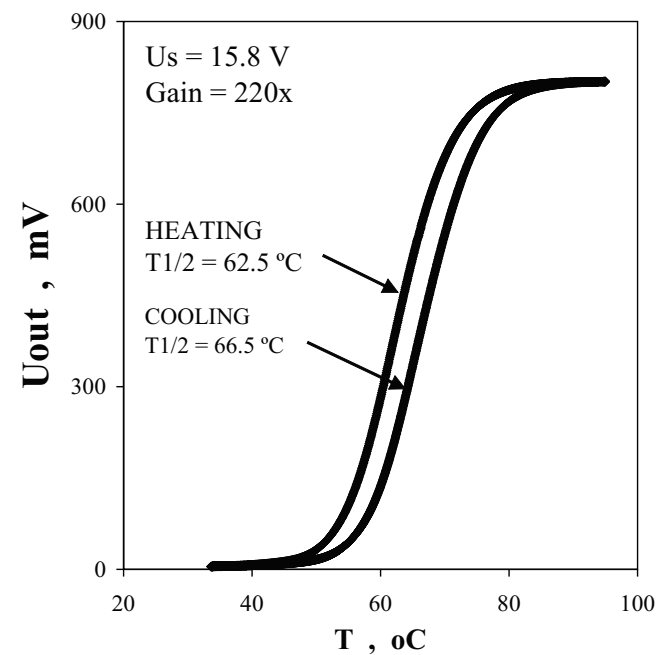


Figure 21.

<https://www.lap-publishing.com>



<https://www.morebooks.de/store/gb/book/composite-structure-of-human-mind/isbn/978-613-9-45072-5>

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Chapter 1

Foreword

Miguel de Cervantes Saavedras:
„Experience is the mother of all sciences”

My deep concern is that the present book will not affect in any way human society, although I tried to point out arguments about the next imminent nuclear conflict mainly caused by continuous and accelerated degradation of human mind in direct correlation with uncontrolled growth of population. Survivors will be only ones with properly prepared minds. These two facts are striking evidences for any one, no matter education and place on the planet Earth. The solution I propose is to permanently testing and improving our mind. Its name is HuPoTest I experienced and developed continuously for more than 50 years. Human mind is our “crazy horse” which no individual succeed to completely master during entire life. The main problem is not that there are bad guys and good guys, but it is practically impossible to know them. The only solution is to take care of our own mind. After a long and intense experience face-to-face on a large variety of individuals with HuPoTest, I established that there are 4 main categories: (i) dominating; (ii) dominated; (iii) independent and (iv) not able to perform HuPoTest. The results are not available for ever, because they can transform instantly between them (flip-flop character). The first two are dependent each other, permanently involved in conflicts up to crime and suicide. The independent ones avoid any conflict and live in honest conditions. People not able to perform HuPoTest have their minds dominated by destructive emotions. Human mind is in permanent activity, so that conscious activity is perturbed by emotions. This is the main point of the present book: to reveal the composite structure of human mind by the existence of the active component involved in coherent thinking and an inert one perturbing the conscious activity. I invite any one who will decide to try HuPoTest to contact me for help without any obligation.

Bucharest, February 2019

About the author:

First name	Gheorghe
Last name	DRAGAN
Born	1 September 1945, Ploiesti, Prahova (Romania)
ORCID	0000-0002-5787-9779
Studies	Faculty of Physics, University of Bucharest, Romania (1963-1968) Ph.D.in Physics, University of Bucharest, Romania (1980)
experience	<ul style="list-style-type: none">● Head of material testing laboratory, ICECHIM, Polymer Department, Bucharest (1969-1979);● Initiator and leader of the research project on new forms and sources of energy; ICECHIM, Center of Physical Chemistry (1979-1988);● Head of laboratory of analytical devices and measuring instruments, AMCO-SA, Bucharest (1988-1993);● Technical manager of GDF-DATA BANKS, Bucharest (1993-2008);● Expert metrologist, Romanian Bureau of Legal Metrology, Bucharest, Romania (1997-2000).
publications	<ul style="list-style-type: none">● >100 scientific papers● >70 scientific communications● 17 patents● 6 books
Address:	all correspondence by e-mail: gdf.dragan@gmail.com

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1997	1	1	Editorial: Databanks – the compulsory language. LOGKOW – a Databank of evaluated octanol-water partition coefficients (James Sangster). Solubility behavior introducing topoenergetic working principles. Comments on 1-octanol-water partition of several n-alkane related series.	F
1997	1	2	Guide of good practice in metrology (Romanian)	AFI
1998	2	1	Editorial: socio-psychological implications in creation and utilization of a databank (Ioan-Bradul Iamandescu); Behavior in vapor-liquid equilibria (VLE): I. Structural aspects; Behavior in vapor-liquid equilibria: II. Several structures in databanks; Symposium on VDC-4 held on 30 October 1997 at Lubrifin-SA, Brasov (Romania).	F
1998	2	2	Practical course of metrology (Romanian)	AFI
1998	2	3	DIFFUTOR-01: Thermally driven diffusion in pure metals	AFI
1998	2	4	VAPORSAT-01: Databanks of thermally driven VLE. The first 100 simple molecules	AFI
1999	3	1	Editorial: New trends in material science: nanostructures (Dan Donescu) DIFFUTOR: Databanks of diffusion kinetics. VAPORSAT: Databanks of vapor-liquid separation kinetics.	F
1999	3	2	Discussions on Applied Metrology	AFI
2000	4	1	Editorial: Laboratory accreditation and inter-laboratory comparisons (Virgil Badescu) Doctoral Theses – important data banks. GDF intends to open new series of experiments on thermo-physical properties. Some comments on uncertainty: global budget and DFT analysis. Events: The 9 th International Metrology Congress, Bordeaux, France, 18-21 October 1999.	F
2000	4	2	Measurement and Calibration.	AFI
2001	5	1	Editorial: Metrology ensures moral and technological progress. Topoenergetic aspects of amorphous-crystalline coupling. I. Composite behavior of water and aqueous solutions (paper presented at nanotubes and Nanostructures 2001, LNF, Frascati, Rome Italy, 17-27 October 2001). Events: Nanotubes and nanostructures 2000.School and workshop, 24 September – 4 October 2000, Cagliari, Italy.	F
2001	5	2	Editorial: Viscosity – a symptomatic problem of actual metrology. Visco-Dens Calorimeter: general features on density and viscosity measurements. New vision on the calibration of thermometers: ISOCALT® MOSATOR: Topoenergetic databanks on molten salts properties driven by temperature and composition.	F
2002	6	1	MOSATOR-01: Topoenergetic databanks for one component molten salts; thermally driven viscosity and electrical conductance.	AFI
2002	6	2	Editorial: HuPoTest - Operator calibration or temporal scale psychic test. MOSATOR: topoenergetic databanks of one component molten salts; thermally driven viscosity and electrical conductance.	F
2002	6	3	Editorial: Quo vadis Earth experiment? ISOCALT® : Report on metrological tests	F
2003	7	1	Editorial: Time – an instrument of the selfish thinking. 1 st NOTE: Homoeopathy: upon some efficient physical tests revealing structural modifications of water and aqueous solutions. I. Mixing experiments.	F
2004	8	1	Metrological verification and calibration of thermometers using thermostats type ISOCALT® 21/70/2. Metrological verification and calibration of thermometers using thermostats type ISOCALT® 2.2R.	F
2004	8	2	Aspects of correct measurements of temperature. I. measurement of a fixed point according to ITS-90. Physics and Homoeopathy: some physical requirements for homoeopathic	F

			practice.(Plenary lecture at the 19 th SRH National Congress, 21-22 September 2004, Bucharest, Romania)	
2005	9	1	AWARD for ISOCALT® at the International Fair TIB-2004, October 2004, Bucharest. ISOCALT® 3/70/21 was awarded in a selection of 20 products by a commission of experts from the Polytechnic University of Bucharest. Upon some aspects of temperature measurements. (12 th International Metrology Congress, 20-23 June 2005, Lyon, France)	F
2005	9	2	A new technique for temperature measurement and calibration. National Society of Measurements (NSM). Important warning for T-calibrator users: MSA has chose metrology well calibrators from Fluke (Hart Scientific).	F
2005	9	3	Universal representation of Cancer Diseases. 1. First sight on NSW-2003 report. Universal representation of Cancer Diseases. 2. UK cancer registrations on 1999-2002. Vital Potential can estimate our predisposition for cancer diseases.	F
2006	10	1	NTC – thermistors -I	AFI
2007	11	1	HuPoTest - 40 years of continuous research Basic rules for preventing and vanishing cancer diseases Climate change = change of mentality Hot nuclear fusion – a project of actual mentality	F
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2007	11	3	TRESISTOR© - data banks of materials with thermally driven electric and magnetic properties TRESISTOR© - NTC -I - data bank of NTC thermistors	AFI
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2008	12	3	Adiabatic calorimetry – summary description of the demo prototype	F
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2009	13	1	Proposal for interlaboratory comparisons. Calibration of NTC-thermistors (The 14 th International Metrology Congress, Paris, France, 22-25 June 2009).	F
2009	13	2	Sudoku – un algoritm de rezolvare. (Sudoku – an algorithm for solution).	AFI
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2019	23	7	Eurovision song contest, Tel Aviv, Israel, 18 May 2019 Book launch: Composite Structure of Human Mind	F
2019	23	8	HuPoTest – 4 weeks of self evaluation, training and additional instructions Book launch: Composite Structure of Human Mind	F
2019	23	9	Composite human mind and composite human society (43rd Congress of American Romanian Academy of Arts and Sciences, ASILOMAR Conference Grounds, Pacific Grove, CA, USA, 15-17 November 2019) Book launch: Composite Structure of Human Mind	F
2020	24	1	Left-Right Bio-Balance: Calorimetric approach of human mental state I. Introductory principles and experimental details. Book launch: Composite Structure of Human Mind	F
2020	24	2	Composite structure of human mind. HuPoTest results on 5 weeks of fasting before Christmas 2019 Global warming and human mentality Book launch: Composite Structure of Human Mind	F
2020	24	3	Left-Right Bio-Balance: Calorimetric approach of human mental state II. Results on male persons under test. Book launch: Composite Structure of Human Mind	F
2020	24	4	Interaction of unpolarized capacitors with Human Mental Field and Bio-Fields. XIII. Results obtained over 2019. Book launch: Composite Structure of Human Mind	F
2020	24	5	Estimation of global warming by differential calorimetric procedure. III. Experimental results over 2019 Book launch: Composite Structure of Human Mind	F
2020	24	6	Structural aspects of temperature phase transition in PTC-thermistors. I. DC electric measurements Book launch: Composite Structure of Human Mind	F
2020	24	7	Composite structure of human mind. HuPoTest results on 7 weeks of fasting before Orthodox Easter 2020 Book launch: Composite Structure of Human Mind	F

*) F=free, AFI=ask for invoice.

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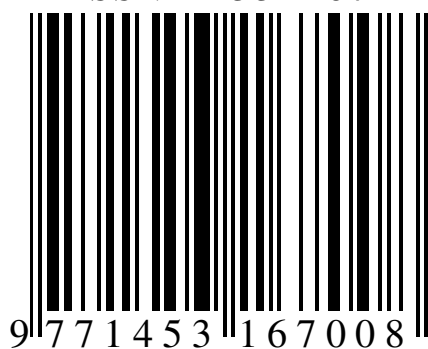
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ERRATUM:

VOL.	NO.	place	CORRECT
15	2	Figure 5	P-
15	3	page 5, row 7 down-to-up	$x = 0.2$
22	3	Figures 4-6	Values of dT_c and exchanged heat must be divided by 10
22	6	Figure 4	$-N^2/M$ values are negative;
23	1	Figure 5	See Figure 8 and comments in issue 23(3)
23	1	HuPoTest-significance of calculated parameters	$(y_o, \Delta b) < 0, \Delta a > 0$: slow reaction $(y_o, \Delta b) > 0, \Delta a < 0$: impulsive reaction

I encourage readers to advice me any observation.

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