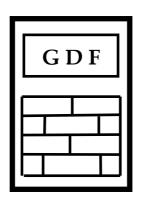
GDF DATA BANKS BULLETIN



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Structural aspects of temperature phase transition in PTC-thermistors. I. DC electric measurements

Positive temperature coefficient (PTC) thermistors have a particular electric conductance mechanism strongly connected with a specific temperature driven phase transition. In the present note several commercial items are considered for dc electric measurements as function of temperature [1]. The exact commercial name of this series is PTFL04XX471Q2N34B0 where the blank XX: BH, BG, BF, BE, BC and BB mentioned by increasing so called sensing temperature (TS) [1] which is proportional with the phase transition temperature considered as Curie point specific to magnetic properties [2].

The goal of this note and hopefully of the next ones of the series is to identify in more details structural origin of this phase transition taking into account the previous results obtained with the topoenergetic working principles on a large number of similar cases [3-6].

Figure 1-3 show the experimental details used for dc electric and temperature measurements of the six PTC items in the following ranges and accuracies: Uout: #0.1 mV (for 0-399.9 mV), #1 mV (for 400-3999 mV), #10 mV (for 4.00-39.99 V) and T: #0.01 °C (room temperature - +140 °C). Temperature probe LM35CZ (TO-92) is supplied with 9V battery for best stability of measurements. Calibration of the overall temperature measuring system will be presented in a separate note.

Results: Figures 4-9 show Uout(T) graphs for each PTC thermistor and graphic evaluation of T1/2 temperature at which the half of the supplied voltage (Us = 5300 mV) occurs. All variations Uout(T) have pure sigmoidal shape, so two sigmoidal models were successfully applied (regression correlations better than 0.9999), namely Logistic and Logistic Power (Tables 1-3). However, the last one predicts T1/2 very close to the graphically estimated values and also with the TS values reported by the manufacturer (Table 4).

Figure 10 gathers R(T) dependences for all PTC items according to the simple relationship:

R(T) = R*Us/(Us-Uout), where R = 27.39 kOhm (Figure 2). R(T) exponentially growths up to infinity, so the UNIVERSAL law can be applied like in the case of NTC-thermistors [6]. For PTC-thermistors the revealed process occurred in the dc electric conductance by increasing temperature has the same nature for all considered items with negative polarity (P -) as in the case of NTC-thermistors. Important structural information results from the basic topoenergetic parameters whose general significance was established on a large number and variety of transformation processes. It is important to observe the following relationships: associated standard deviation bars of parameters N and M strongly decrease along the series with decreasing process amplitude (LN(Ctr)), with increasing kinetic units (LN(ctr), Figure 12), with increasing coupling strength between transforming and inert components (CS – Figure 13) and with increasing T1/2 and TS (Table 4). Critical points (Tc) values resulted from the UNIVERSAL kinetic equation are practically the same for all series, can not be correlated with T1/2 and TS and have no structural significance.

Conclusions: These results open a new vision on structural mechanism of dc electric conductance in PTC thermistors and must be correlated with their composition and processing history. Further experiments both extended on a large variety of PTC thermistors and in new measuring systems (for instance ac, dynamic temperature regime and/or in controlled magnetic field) will reveal new structural details, properties and new applications.

References

- [1] Posistors® for Overheat Sensing, datasheet CE-010T (www.murata.com).
- [2] C. Kittel, Introduction to Solid State Physics, John Wiley & Sons (1986, 6th edn.).
- [3] G. Dragan, Structural aspects revealed by topoenergetic view on ac electric conductivity in HCl/(water + organic solvent), GDF Databanks Bull., 20(2), 2016.
- [4] G. Dragan, Structural and relativistic aspects in transforming systems. I. Arrhenius and Universal representations of thermally driven processes, GDF Databanks Bull., 15(2), 2011.
- [5] G. Dragan, Topoenergetic aspects of water structuring as revealed by ac electric conductivity. Topoenergetic aspects of water structuring as revealed by ac electric conductivity, GDF Databanks Bull., 15(3), 2011.
- [6] G. Dragan, NTC thermistors -1, GDF Databanks Bull., 10(1), 2006.



Figure 1. Disposition of PTC thermistors on an aluminum block (60x60x10 mm) as thermal lens. Arrow show the insert of LM35CZ as temperature sensor.

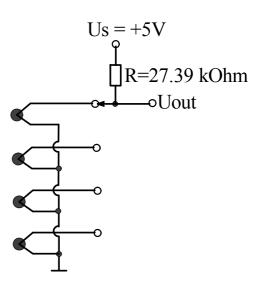


Figure 2.Schematic for measurement of Uout for each PTC-thermistor.

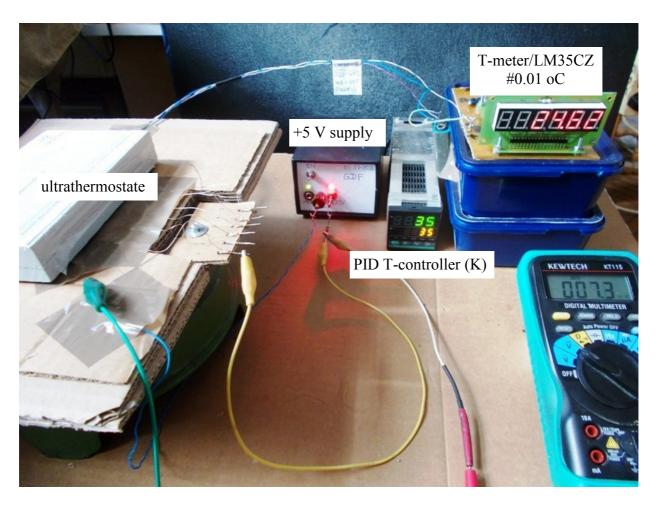


Figure 3. Experimental disposition for measurement of Uout(T) for all PTC-thermistors.

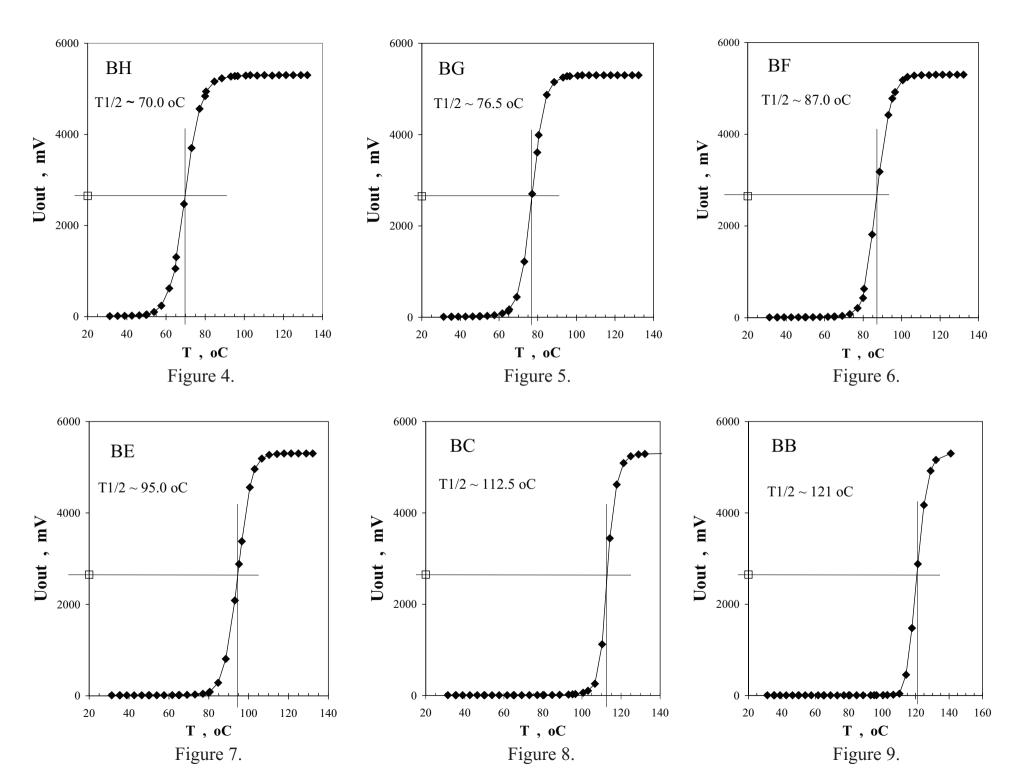


Table 1. sigmoidal – LOGISTIC, Y = a/(1+b*exp(-c*X)); Y = Uoutcorr (mV), X = (T-To) T1/2=(1/c)*ln(b); T1/2=To1/2+To, all regressions with correl = 0.9999

			(-))		,				
XX	To, oC	a	b	c	u(a)	u(b)	u(c)	To1/2,oC	T1/2,oC
ВН	33.26	5226	1.78E+03	0.2569	8	1.2E+07	0.003	29.1	62.4
BG	28.63	5268	3.59E+05	0.3043	9	6.7E+04	0.004	42.0	70.7
BF	28.63	5276	4.91E+06	0.2932	14	1.1E+06	0.005	52.5	81.2
BE	34.63	5302	4.97E+06	0.2955	7	6.8E+06	0.003	52.2	86.8
BC	46.87	5248	1.19E+11	0.4585	20	7.2E+10	0.01	55.6	102.5
BB	65.65	5260	7.85E+05	0.3358	35	2.7E+05	0.009	40.4	106.1

Table 2. sigmoidal - LOGISTIC POWER: $Y = a/(1+(X/b)^c)$; Y = Uoutcorr (mV), X = (T-To) T1/2 = b, all regressions with correl = 0.9999

XX	To,oC	a	b	c	u(a)	u(b0	u(c)	To1/2,oC	T1/2,oC
ВН	33.26	5258	28.81	-7.5	15	0.09	0.2	28.8	62.1
BG	28.63	5285	41.91	-12.7	14	0.08	0.3	41.9	70.5
BF	28.63	5296	52.03	-15.2	9	0.05	0.2	52.0	80.7
BE	34.63	5326	52.12	-16.4	17	0.07	0.3	52.1	86.8
BC	46.87	5263	55.58	-25.3	17	0.05	0.5	55.6	102.5
BB	65.65	5333	40.40	-13.2	21	0.05	0.2	40.4	106.1

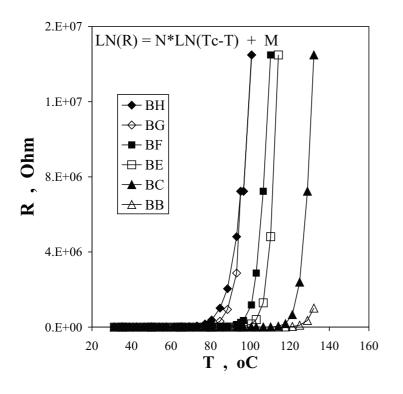
Table 3. sigmoidal - LOGISTIC POWER: $Y = a/(1+(X/b)^c)$; Y = Uoutcorr (mV), X = T; T1/2 = b, all regressions with correl = 0.9999

		-,					
XX	a	b	c	u(a)	u(b0	u(c)	T1/2,oC
ВН	5303	69.70	-17.6	8	0.06	0.2	69.70
BG	5310	76.95	-23.2	10	0.05	0.4	76.95
BF	5301	87.13	-25.3	10	0.05	0.3	87.13
BE	5327	94.54	-27.7	12	0.05	0.4	94.54
BC	5267	112.97	-51.3	16	0.05	1	112.97
BB	5292	120.79	-40.0	19	0.05	0.6	120.79

Table 4.

vv	TS, oC(1)	T1/2 , oC				
ΛΛ	13, 00 (1)	Graphic (2)	Logistic Power (3)			
BH	60	70.0	69.70 ± 0.06			
BG	70	76.5	76.95 ± 0.05			
BF	80	87.0	87.13 ± 0.05			
BE	90	95.0	94.54 ± 0.05			
BC	110	112.5	112.97 ± 0.05			
BB	120	121	120.79 ± 0.05			

- (1) Sensing temperature (TS) reported by the manufacturer (Murata) [1];
- (2) Graphically estimated values from Uout(T)(see Figures);
- (3) Data from Table 3.



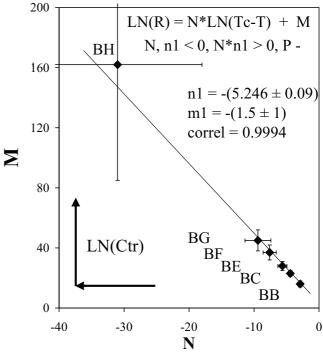
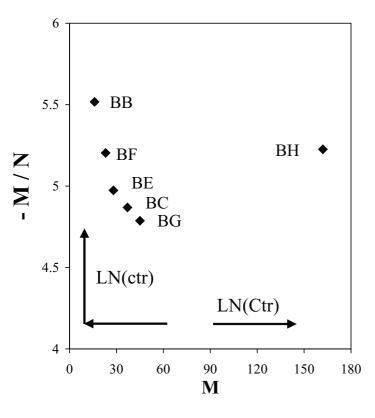


Figure 10.

Figure 11.



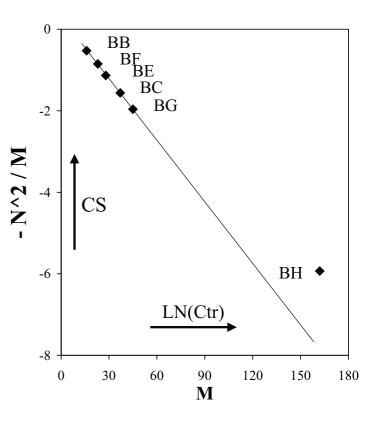
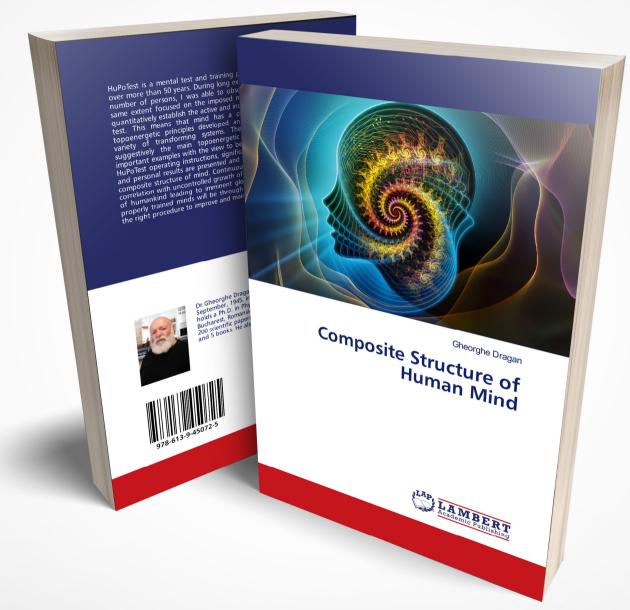


Figure 12.

Figure 13.

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

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Gheorghe DRAGAN - Composite structure of human mind

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

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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-Bradu 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

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			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 -1	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
2007	11	2	MT – Introduction to Mental Technology HuPoTest – general procedure, assignments of results, specimen of complete test, order and obtain your complete HuPoTest report	F
2007	11	3	TRESISTOR© - data banks of materials with thermally driven electric and magnetic properties TRESISTOR© - NTC -1 - data bank of NTC thermistors	AFI
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2008	12	2	Pattern of Cancer Diseases	F
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2009	13	2	Sudoku – un algoritm de rezolvare. (Sudoku – an algorithm for solution).	AFI
2009	13	3	Cancer and Diabetes – as social diseases. (Open letter to all whom it may concern).	F
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			HuPoTest – 50 years of continuous research and attempts to make it as efficient	
			self-evaluation and improving procedure for mental state	
			HuPoTest – read this first	
			Message to the organizers of the snn2016 Conference (http://snn2016.snn.ro/)	
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			2-5, 2017)	
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			VII. Dielectrics with high oriented crystalline structure.	
			Interaction of unpolarized capacitors with Human Mental Field and Bio-Fields.	
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			HuPoTest – data base correlations revealing mental pattern.	
2017	21	6	Upon some features of global economic structure	F
			Eurovision song contest 2017	
2017		_	HuPoTest – proper training and creation of simple database in view to evaluate	-
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			HuPoTest – project for the complete software available for any individual user	
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			Topoenergetic structure of trees ramification	
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			HuPoTest – preliminary tests on PUT response reaction Interaction of unpolarized capacitors with Human Mental Field and Bio-Fields.	
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			Interaction of unpolarized capacitors with Human Mental Field and Bio-Fields.	
			X. Further estimations on 1 st June 2017- 9 th January 2018.	
			HuPoTest – new tests on PUT response reaction	
2018	22	2	HuPoTest – read this first before use it (updated)	F
		_	HuPoTest – an efficient test and training procedure for mental and health state	_
			(abstract sent to the International Congress of Royal College of Psychiatrics -	
			2018)	
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2018	22	3	I. Experimental principles, preliminary results and their significances.	F
			Definition and assignment of some global uncertainties of measurements, 9th	
			International Metrology Congress, Bordeaux, France, 18-21 October 1999, pp.	
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2010	22	-	HuPoTest - errors originating from software	1
			HuPoTest – seven week mental training during Ortodox Easter Fasting.	
			I. New rules for more realistic and efficient measurements.	
2018	22	5	HuPoTest – seven week mental training during Ortodox Easter Fasting.	F
			II. Statistic features of particular data and their significance	
2018	22	6	HuPoTest – seven week mental training during Ortodox Easter Fasting.	F
	-	-	III. Personal mind structure and pattern during training	
			HuPoTest – up to date history	
2019	23	1	HuPoTest – operating instructions	F
			HuPoTest – significance of calculated parameters	
			HuPoTest – composite structure of mind	
2019	23	2	Estimation of global warming by differential calorimetric procedure.	F
			II. Experimental results over 2018	

			1551 1455 - 1074					
2019	23	3	Composite structure of human mind.	F				
			HuPoTest results on 5 weeks of fasting before Christmas 2018					
			Interaction of unpolarized capacitors with Human Mental Field and Bio-Fields.	_				
2019	23	4	XI. Results obtained over 2018.	F				
			Book launch: Composite Structure of Human Mind					
			Interaction of unpolarized capacitors with Human Mental Field and Bio-Fields.					
2019	23	5	XII. New results obtained over 2018.	F				
			Book launch: Composite Structure of Human Mind					
			Composite structure of human mind. HuPoTest results on 7 weeks of fasting					
2019	23	6	before Orthodox Easter 2019	F				
			Book launch: Composite Structure of Human Mind					
2010	22	7	Eurovision song contest, Tel Aviv, Israel, 18 May 2019					
2019	23	7	Book launch: Composite Structure of Human Mind	F				
• 0.10			HuPoTest – 4 weeks of self evaluation, training and additional instructions	_				
2019	23	8	Book launch: Composite Structure of Human Mind	F				
			Composite human mind and composite human society					
			(43rd Congress of American Romanian Academy of Arts and Sciences,					
2019	23	9	ASILOMAR Conference Grounds, Pacific Grove, CA, USA, 15-17 November	F				
2017	23	23	23	23	23		2019)	1
			·					
			Book launch: Composite Structure of Human Mind Left-Right Bio-Balance: Calorimetric approach of human mental state					
2020	24			Б				
2020	24	1	I. Introductory principles and experimental details.	F				
			Book launch: Composite Structure of Human Mind					
			Composite structure of human mind.					
2020	24	2	HuPoTest results on 5 weeks of fasting before Christmas 2019	F				
2020		_	Global warming and human mentality	•				
			Book launch: Composite Structure of Human Mind					
			Left-Right Bio-Balance: Calorimetric approach of human mental state					
2020	24	3	II. Results on male persons under test.	F				
			Book launch: Composite Structure of Human Mind					
			Interaction of unpolarized capacitors with Human Mental Field and Bio-Fields.					
2020	24	4	XIII. Results obtained over 2019.	F				
			Book launch: Composite Structure of Human Mind					
			Estimation of global warming by differential calorimetric procedure.					
2020	24	5	III. Experimental results over 2019	F				
2020			Book launch: Composite Structure of Human Mind	•				
	l	1	Book launen. Composite directure of Human Mind					

^{*)} F=free, AFI=ask for invoice.

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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 dTc 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	(yo, Δ b)<0, Δ a>0: slow reaction (yo, Δ b)>0, Δ a<0: impulsive reaction

I encourage readers to advice me any observation.



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