

Victor Barsan – CV

Data and place of birth: September 28,1950, Focsani, jud. Vrancea

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Civil status: married, two children

Education:

Faculty of Physics, University of Bucharest, 1969 - 1974

Faculty of Mathematics and Mechanics, University of Bucharest, 1975 – 1980

PhD in physics, 1980 – 1990

Career:

Physicist, Electronic Computing Center, Research Institute for Electrotechnics, 1974 – 1978

Physicist / researcher: Department of Theoretical Physics, IFIN-HH, 1978 – 1998

Director in Ministry of Foreign Affairs / Ambassador of Romania in the Republic of Moldova, 1999-2001

International consultant for higher education and scientific research of UNESCO, in the OIL FOR FOOD Mission in Iraq, 2002 – 2003

Senior researcher, Department of Theoretical Physics, IFIN-HH, since 2004

Vice-president of the Horia Hulubei Foundation and Scientific Secretary of the UNESCO Chair of this Foundation, since 2012

Other activities: journalism, recent history, human rights

Victor Barsan – Recent publications

Papers

1. *Goethe's theory of colors between the ancient philosophy, middle ages occultism and modern science*

V. Barsan, A. Meticariu

Cogent Arts & Humanities 3 (2016) 1145569

2016

2. *Algebraic approximations for transcendental equations with applications in nanophysics*

V. Barsan

Philos.Mag. 95 (2015) 3023–3038

2015

3. *Understanding quantum phenomena without solving the Schrödinger equation: the case of the finite square well*

V. Barsan

Eur. J. Phys. 36 (2015) 065009 (12pp)

2015

4. *Square wells, quantum wells and ultra-thin metallic films*

Victor Barsan

arXiv:1307.2386v1; Philosophical Magazine 94 (2014) 190-207

2014

5. *Shape- and topology-dependent heat capacity of few-particle systems*

V. Barsan

arXiv: 1204.0384v1 [cond-mat.stat-mech]; Philos.Mag. 93 (2013) 1604-1617

2013

6. *A new analytic approximation for the energy eigenvalues of a finite square well*

Victor Barsan

Rom.Rep.Phys. 64 (2012) 685-694

2012

7. *The quartic oscillator in an external field and the statistical physics of highly anisotropic solids*

V. Barsan

Philos.Mag. vol.91, p.477-488 (2011)

2011

8. *Thermodynamics of a planar array of Ginzburg-Landau chains with nnn interaction*

V. Barsan

Rom.Rep.Phys. vol.63, p.1038-1047

2011

9. *A two-parameter generalization of the complete elliptic integral of second kind*

Victor Barsan

The Ramanujan Journal, vol.20, p.153 (October 2009)
2009

Books

Trends in Nanophysics: Theory, Experiment and Technology, Springer Heidelberg Dordrecht London New York

A. Aldea, V. Barsan (Eds.), 2010

Trends in electromagnetism, InTech, 2012

Editors: V. Barsan, R.P. Lungu; author of the chapter: Waveguides, resonant cavities, optical fibers and their quantum counterparts, p.89 – 112

Complemente de mecanica cuantica si statistica, Editura Tehnica, Bucuresti, 2013

Editors: Radu P. Lungu, Victor Barsan; author of the chapters: Quantum wells and metallic ultra-thin films and (together with Gh. Ciobanu) Critical behaviour of an anharmonic solid