Curriculum Vitae

of Manuel Malaver de la Fuente, Ph.D.

Personal Information

First Name: Manuel

Second name: Malaver de la Fuente

C. I. Number: 6308109

Nationality: Venezuelan

Work Address: Maritime University of the Caribbean, Army Avenue, Catia La Mar, Estado La Guaira, Venezuela

Phone Number: 0412-3983627

02125729940

E-mail: mmf.umc@gmail.com

mmalaver@umc.edu.ve

Website

https://www.webofscience.com/wos/author/record/H-8893-2019

https://arxiv.org/search/?query=Malaver&searchtype=all&source=header

https://www.atiner.gr/bio/Malaver-Fuente.pdf

https://umc.academia.edu/DrManuelMalaverdelaFuente

https://scholar.google.co.ve/citations?user=pTG3t_8AAAAJ&hl=en

https://www.adscientificindex.com/scientist.php?id=825877

https://alliedacademies.com/profile/Dr.%20Manuel%20Malaver%20de%20la%20Fuente

https://orcid.org/my-orcid?orcid=0000-0002-2797-3174

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Education

Basic: Escuela Nacional Padre Sojo

Caracas.Distrito Federal

Certificado de Educación Primaria

1979

High School: Colegio Cervantes

Caracas. Distrito Capital

Bachiller en Ciencias

1984

Doctor Degree:

1.- Central University of Venezuela

Faculty of Engineering. Department of Applied Physics

Doctor in Theoretical and Applied Mechanics (General Relativity), 2011

Advisor: Dra. María Esculpi.

Magister Degree

2.- Universidad Pedagógica Experimental Libertador

Instituto Pedagógico de Caracas.

Magister in Education, mention Chemical Education, 2001

Advisor: MSc. Rafael Pujol.

Bachelor Degree

3.- Central University of Venezuela

Bachelor in Chemistry,1993

Advisor: Dr. Vladimiro Mujica.

Profesional Experience

1.- Trainer at the Faculty of Sciences, UCV , in laboratory subjects Principles of Chemistry and Inorganic Chemistry Laboratory I from October 1990 to July 1992..

2. Student Assistant. Laboratory of Computational Chemistry,. Venezuelan Institute for Scientific Research from July 1990 to December1992.

3.- Professor conventional time instructor Jose Maria Vargas University in the subject of thermodynamics from January 1996 to December1996.

4.-Part-time instructor Professor at the Pedagogical University Liberator Experimental Pedagogical Institute of Caracas from 15/10/2001 to 03/01/02 of the subject Biofísicoquímica. Department of Biology and Chemistry.

5.- Assistant Professor conventional time of Hydraulics and Fluid Mechanics at the University Alejandro de Humboldt from 27/1/03 until 15/12/04. Facultad of Engineering. School Maintenance Engineering Works.

6.- Conventional time Assistant Professor of Hydraulics and General Chemistry at the University Alejandro de Humboldt from 3/1/2005 until 27/4/2005.

7.- Conventional time Assistant Professor of Hydraulics at the University Alejandro de Humboldt from10/5/2005 to 15/12/2005.

8.-Conventional time Assistant Professor of Hydraulics and Physics II at the University Alejandro de Humboldt from 3/1/2006 until 27/4/2006.

9.- Assistant Professor of conventional time in Mathematics III and Physics II at the University Alejandro de Humboldt from 8/5/2006 until 11/8/2006.

10.- Professor conventional time instructor of the course in Analytical Chemistry, University of Education Experimental Pedagogical Institute of Caracas from 10/05/2004 to 1/10/2004, Department of Biology and Chemistry.

11.- Professor of Geometry and Trigonometry in the National Experimental Polytechnic University of the Armed Forces from 4/10/2004 until 15/12/2004.

12- Conventional time Assistant Professor of Analytical Geometry in the National Experimental Polytechnic University of the Armed Forces from the 17/01/2005 to the 29/04/2005.

13.- Conventional time Assistant Professor of Analytical Geometry National Experimental Polytechnic University of the Armed Forces from the 17/01/2005 to the 29/04/2005.

14.- Assistant Professor of Mathematics of Universidad Nacional Experimental Politécnica de la Fuerza Armada from el 26/9/2005 to 10/12/2005.

15.- Conventional time Assistant Professor, Mathematics IV in the basic cycle of Engineering of the National Experimental Polytechnic University of the Armed Forces from 9/1/2006 until 29/4/2006.

16.- Conventional time Assistant Professor, Mathematics and Logical Reasoning in the preuniversity course of the Dean of Extension of National Experimental Polytechnic University of the Armed Forces from 27/1/2006 to 29/4/2006.

17.- Professor of Physics II in the Maritime University of the Caribbean from 7/8/2006 to 15/9/2006.

18.- Professor of Mathematics II in the career of social economy and the basic cycle IV Mathematics of Engineering in National Experimental Polytechnic University of the Armed Forces from 18/9/2006 to 15/12/2006.

19.- Assistant Professor of conventional time, Hydraulics in Alexander Humboldt University from 21/08/2006 until l8/12/2006.

20.- Full-time Assistant Professor in Physics I, II and Thermodynamics in the Maritime University of the Caribbean from the01.01.2007.

21.- Full-time Assistant Professor of Fluid Mechanics in course for the 1st official mention of machines in the Caribbean Maritime University since 02/02/2011.

22.-Asistant Professor of Applied Mathematics in Universidad Nacional Experimental Politécnica de la Fuerza Armada since 12/09/2007.

23.- Full time Aggregate Professor in General Physics in the Maritime University of the Caribbean since 19/01/2017.

24.- Full time Associate Professor in General Physics in the Maritime University of the Caribbean since 25/11/2021.

Communications to Congress

1.- Speaker at the Third Conference on Teaching and Research of the Department of Biology and Chemistry of the Pedagogical Institute of Caracas.(15-18) May 2001.Paper presented: "Content analysis refers to the structure of matter in textbooks of Basic Chemistry at the University."

2.- Speaker at the Conference on Research in the Faculty of Engineering (JIFI 2004), Central University of Venezuela. (29/11 to 3/12, 2004). Paper presented: "Stars anisotropic with uniform energy density. New Models."

3,-Speaker at the Second day of presentations a tthe Center of Thought Sensorium Magister Maritime University of the Caribbean (June-July 2009).Paper presented: "Models of anisotropic star sand dark energy in general relativity"

4.- Speaker at the XXI Congress of Differential Equations and Applications /XICongress of Applied Mathematics held at the University of Castilla-La Mancha in Ciudad Real, Spain from 21 to25 September 2009. Paper presented: "Comparative analysis of some analytical models for quark stars."

5.- Speaker at the XXII Congress of Differential Equations and Applications / XII Congress of Applied Mathematics held at the Universitat de les Illes Baleares, Palma de Mallorca, Spain, from 5 to 9 September 2011. Paper presented: "Un modelo de Estrella Anisótropa con densidad variable en Relatividad General".

6.- Speaker at the I Congreso Venezolano de Ciencia, Tecnologia e Innovacion held at the Hotel Alba-Caracas from 23-26 September 2012. Paper presented: " Análisis de irreversibilidades asociadas a la relación de trabajo de retroceso de un ciclo Brayton" .

7.- Speaker at the Compact Objects Summer Fest held at the Universidad Industrial de Santander, Bucaramanga, Colombia, from 21 to 23 August 2013. Paper presented: " Regular Model for Quark Stars with Van der Waals Modified Equation of State "

8.- Presentation of the seminar titled "Charged anisotropic stars with Tolman IV type potential " the day 2/18/2016 in the cycle of seminars in Physics Center of IVIC.

9.- Speaker of Course "How to Write an Academic Article" (07/29 to 08/05, 2021), Venezuelan Nautical Education Center, National Institute of Aquatic Spaces.

Attendance at Courses and Seminars

1.- Participating in the First Day Institutional Post-graduate in the Pedagogical Institute of Caracas,(14-17) October 1997 in Caracas,Venezuela. Duration: 30 hours.

2.- Course Data Processing Statistics by SPSS in the Pedagogical Institute of Caracas, October 1997.Duration: 25 hours.

3.- Participatingin the workshop"Needs and Rationale fo rthe construction of the proposed reform of the third stage of basic education and high school level and vocational education" held in the service center of the Ministry of Education ,August 1998.Duration: 8 hours.

4.- Participant in the consultation workshop on the chemistry programing 9th grade to the DBC, November 1998. Duration: 12 hours

5.- Attendance at the Sixth Annual Conference on Research in the Pedagogical Institute of Caracas 10/06/1998 to 08/10/1998. Duration: 24 hours.

6.- Assistant in the Cycle of Conferences "Ten years of the Physics Olympiad" between 27/01/2000 and 02/05/2000. Duration: 8 hours.

7.- Participating in the workshop "Basic Theory SeminarControl andElectronic Controlsfor Refrigeration". Given in the IUP Santiago Marino, May 18, 2000

8.- Attendance at the induction workshop institutional and educational update on the new evaluation form given to the third stage of basic education, taught in high school militarized Generalissimo Francisco de Miranda,13 September2000.duración: 8 hours.

9.- Participanting at the workshop "Basic Theory SeminarControl andElectronic Controlsfor Refrigeration". Given in the IUP Santiago Mariño, May 18, 2000

10.- Attendance at the Seminar-Workshop on Creativityand Innovation in Teaching, Research and Industry in the framework of the XV Olympiad in Chemistry Venezuela, Caracas, March 8, 1997.

11.- Assistance to the teacher induction workshop held at the IUP Santiago Mariño, April 2001.

12.- I Support Induction Seminar for teachers of the Alexander Humboldt University, Caracas, May 10, 2003.

13.- General Lubrication Course held in Caracas, December 6, 2000, Deltaven, SA PDVSA subsidiary.

14.- Attendance atthe First Day of Instructional Programs Update Curriculum Guidelines at UMC conducted at the Maritime University of the Caribbean, 3 and4 March 2008, total of 12 academic hours.

15.- Assistance to the module "STCW Code78/95" belonging to Component Teaching Higher Education held at the Universityof the CaribbeanSeaMay 4, 2007, total of 12 academic hours.

16.- Assistance to the module "Maritime Training" pertaining to ComponentTeachingin Higher Education held at the Maritime University of the Caribbean May 11, 2007, with total of 16 academic hours.

17.- Attendance at the workshop introduction to the system of quality management for teachers and academic coordinators, with a duration of 4 academic hours, held at the Maritime University of the Caribbean May 8, 2007.

18.- Assistance to the discussion of the draft regulations of the student community service of the Maritime University of the Caribbean, March 27, 2008,

19.- Assistance to the Second Round of Presentations: Design and Action of the Dynamics of Thought conducted at the Maritime University of the Caribbean, June 11 andJuly 9, 2009 and organized by the Centre for Thought Magister Sensorium.

20.- Attendance atthe Workshop on Neuroscience and Learning, given Maritime University of the Caribbean, CatiaLa Mar, Vargas State, 12 and17 March 2010. Duración: 16 hours

21.- Participation in the Training Workshop for Editors for Scientific Journals, held at ONCTI on 21 November 2018

List of Publications

1.- Theoretical to Experimental Design Observables General Conjectural Modeling Transforms Measurement Instrumented Physics Compendium. Rajan Iyer, Manuel Malaver and Emory Taylor. **Research Journal of Modern Physics**, 2(1), 2023, pp.1-14.

2.- Some new models of Charged anisotropic relativistic stars with a linear and quadratic equation of state. Manuel Malaver and Rajan Iyer. **International Astronomy and Astrophysics Research Journal**, 5(1), 2023, pp.1-19. https://arxiv.org/abs/2303.12161

3.- Analysis of Local Anisotropy Fluctuations in Compact Objects, Manuel Malaver and Maria Esculpi, accepted for publication in **Venezuelan Journal of Astronomy**, 01/30/2023.

4.- Study of Compact Stars with Buchdahl Potential in 5-D Einstein-Gauss-Bonnet Gravity. Manuel Malaver, Rajan Iyer and Israr Khan. **Physical Science International Journal**, 26(9-10), 2022, pp.1-18 https://arxiv.org/abs/2301.08860

5.- Charged Dark Energy Stars in a Finch-Skea Spacetime. Manuel Malaver and Rajan Iyer .**Canadian Journal of Pure and Applied Sciences,** 16(3), 2022, pp. 5531-5539 https://arxiv.org/abs/2206.13943

6- Charged Anisotropic Stellar Models with the MIT Bag Model Equation of State. Manuel Malaver. **Universal Journal of Physics Research**,1(1), 2022, pp.18–31. **DOI: 10.31586/ujpr.2022.338.**

7.- Analytical Model of Compact Star with a new version of Modified Chaplygin Equation of State. Manuel Malaver and Rajan Iyer. **Applied Physics**, 5(1), 2022, pp.18-36. https://arxiv.org/abs/2204.13108

8.- Buchdahl Spacetime with Compact Body Solution of Charged Fluid and Scalar Field Theory.Manuel Malaver, Rajan Iyer, Alokananda Kar, Shouvik Sadhukhan, Sudhaker Upadhyay, Ertan Güdekli. https://arxiv.org/abs/2204.00981

9.- Increment of heat transfer by graphene-oxide and molybdenum-disulfide nanoparticles in ethylene glycol solution as working nanofluid in penetrable moveable longitudinal fin.**Waves in Random and Complex Media** Nabil Talbi,Mohamed Kezzar, Manuel Malaver, Ismail Tabet, Mohamed Rafik Sari, Abderrezak Metatla & Mohamed R. Eid. https://doi.org/10.1080/17455030.2022.2026527

10.- Modeling of Gage Discontinuity Dissipative Physics. Rajan Iyer, Christopher O'Neill, Manuel Malaver, John Hodge, Wenzhong Zhang, Emory Taylor, **Canadian Journal of Pure and Applied Sciences**., Vol. 16, Issue 1, 2022, pp.5367 -5377.

11.- Helmholtz Hamiltonian Mechanics Electromagnetic Physics Gaging Charge Fields Having Novel Quantum Circuitry Model. **Oriental Journal of Physical Sciences**. Rajan Iyer, Christopher O'Neill, Manuel Malaver, Vol.05, No.(1-2) 2021, pp.30-48.

12.- Proof Formalism General Quantum Density Commutator Matrix Physics. **Physical Science & Biophysics Journal**. Rajan Iyer, Manuel Malaver, Vol. 5, issue 2, 2021, pp.1-5.

13.- A theoretical model of Dark Energy Stars in Einstein-Gauss-Bonnet Gravity. Manuel Malaver, Hamed Kasmaei, Rajan Iyer, Shouvik Sadhukhan, Alokananda Kar. **Applied Physics**. Vol.4, Issue 3, 2021, pp.1-21 https://arxiv.org/abs/2106.09520 ,

14.- Anisotropic charged solutions for quark stars with linear equation of state. **Physical Science & Biophysics Journal**. Manuel Malaver, Vol. 5, issue 1, 2021, pp.1-9.

15.- Mathematical Modeling of strange stars in 5-D Einstein-Gauss-Bonnet Gravity**.** **Applied Physics**.Manuel Malaver and Hamed Daei Kasmaei, Vol.4, Issue 2, 2021, pp.18-35. https://www.preprints.org/manuscript/202104.0381/v1.

16.- Classes of charged anisotropic stars with polytropic equation of state. **International Journal of Research and Reviews in Applied Sciences**. Manuel Malaver and Hamed Daei Kasmaei, Vol.46, No.1,2021, pp.38-51.

17.- Charged Anisotropic Matter with Modified Chaplygin equation of state. **International Journal of Physics: Study and Research**. Manuel Malaver and Hamed Daei Kasmaei, Vol. 3, No.1, 2021, pp. 83-90.
https://www.preprints.org/manuscript/202012.0211/v1

18.- Relativistic Stellar Models with Quadratic Equation of State. **International Journal of Mathematical Modelling & Computations**. Manuel Malaver and Hamed Daei Kasmaei, Vol.10, No.2, 2020, pp.111-124.

19.- Compressibility in a Variable Generalised Chaplygin Gas. **Experimental Results**. Manuel Malaver, Vol.1, e25, 2020, pp.1-8. **Cambridge University Press.**

20.- Mixed Convection in MHD Water-Based Molybdenum Disulfide-Graphene Oxide Hybrid Nanofluid Through an Upright Cylinder with Shape Factor. Yu-Ming Chu, Kottakkaran Sooppy Nisar, Umair Khan, Hamed Daei Kasmaei, Manuel Malaver, Aurang Zaib and Ilyas Khan. **Water**. **Special Issue: Pipeline Fluid Mechanics 2020**, Vol.12, No. 6, 2020, 1723.

21.- Relativistic anisotropic fluid spheres satisfying a non- linear equation of state. **The European Physical Journal C**. Francisco Tello-Ortiz, Manuel Malaver, Ángel Rincón and Yuvineza Gomez- Leyton, Vol.80, No.5, 2020, 371. https://arxiv.org/abs/2005.11038

22.- Mixed Convective in an Axisymmetric Magneto Flow Owing to MoS_2-GO Hybrid Nanoliquids in H_2O Based Liquid Through an Upright Cylinder with Shape Factor. https://arxiv.org/abs/2003.11475. Umair Khan, A. Zaib, Hamed Daei Kasmaei, Manuel Malaver.

23.- Strange Stars in the Color-Flavor Locked Phase . Universal Journal of Physics and Application. Manuel Malaver and Hamed Daei Kasmaei, Vol.14, No.1, 2020, pp.1-10. https://www.preprints.org/manuscript/201911.0056/v1

24.-Analytical Models of Dark Energy Stars with Quadratic Equation of State. **Applied Physics**. Manuel Malaver and Hamed Daei Kasmaei, Vol.3, No.1, 2020, pp.1-14. https://www.preprints.org/manuscript/201912.0125/v1.

25.- Analytical Models for Quark Stars with Van Der Waals Modified Equation of State. **International Journal of Astrophysics and Space Science.** Manuel Malaver and Hamed Daei Kasmaei, Vol. 7, No.5, 2019, pp.58-67.

26.- New Models of Dark Energy Stars with Charge Distributions. **International Journal of Astrophysics and Space Science.** Manuel Malaver, María Esculpi and Megandhren Govender, Vol. 7, No.2, 2019, pp.27-32.

27.- Carnot heat engine efficiency with a paramagnetic gas. **World Scientific News.** Manuel Malaver, Vol 130, 2019, pp.116-126. https://arxiv.org/abs/1905.06338

28.- Determination of the Vapor Pressure in a Paramagnetic Solid**.** **International Journal of Nanoscience and Nanoengineering**. Manuel Malaver. Vol 5, No.2 2019, pp.16-21. https://arxiv.org/abs/1905.02587

29.- Carnot Heat Engine with a Variable Generalized Chaplygin Gas. **International Journal of Astronomy, Astrophysics and Space Science**. Manuel Malaver. Vol. 5, No.4, 2018, pp.45-50.

30.- Some new models of anisotropic compact stars with quadratic equation of state. **World Scientific News**. Manuel Malaver. Vol. 109, 2018, pp.180-194.

31.- Charged stellar model with a prescribed form of the metric function y(x) in a Tolman VII spacetime. **World Scientific News.** Manuel Malaver. Vol 108, 2018, pp. 41-52.

32.- Charged anisotropic models in a modified Tolman IV spacetime. **World Scientific News**. Manuel Malaver, Vol l01, 2018, pp. 31-43.

33.- Energy, entropy and work function in a molecule with degeneracy. **World Scientific News**. Manuel Malaver, Vol 97, 2018, pp. 250-257.

34.- Generalized nonsingular model for compact stars electrically charged**. World Scientific News**. Manuel Malaver, Vol. 92, N°2, 2018, pp.327-339.

35.-Analytical models for quark stars with electric field. **World Scientific News**.Manuel Malaver ,Vol. 89, 2017, pp.39-47.

36.- New Mathematical Models of Compact Stars with Charge Distributions. **International Journal of Systems Science and Applied Mathematics.** Manuel Malaver Vol. 2, N°5, 2017, pp.93-98.

37.- Anisotropic charged stars with quadratic equation state. **World Scientific News**. Manuel Malaver Vol. 86, N°3, 2017, pp.333-344.

38.- Relativistic modeling of compact stars for charged anisotropic matter in a Tolman IV spacetime. **World Scientific News**. Manuel Malaver Vol. 81,, N°2, 2017, pp.257-267.

39.- Charged Stellar Model with Quadratic Equation of State in Tolman VII Spacetime**. International Journal of Astronomy, Astrophysics and Space Science**. Manuel Malaver. Vol. 4, N° 2, 2017, pp.12-16

40.- An analysis of the thermal capacity in Gravitons. **World Scientific News**. Manuel Malaver Vol. 72, 2017, pp.34-40.

41.- Thermodynamical analysis for a variable generalized Chaplygin gas**. World Scientific News**. Manuel Malaver Vol. 66, 2017, pp.149-162.

42.- Classes of relativistic stars with quadratic equation of state **. World Scientific News**. Manuel Malaver Vol. 57, 2016, pp.70-80

43.- Anisotropic Stars with a Prescribed Form of Metric Potential Z**. World Journal of Applied Physics**. Manuel Malaver Vol. 1, No. 2, 2016, pp. 20-25.

44.- Analytical models for compact stars with a linear equation of state. **World Scientific News**. Manuel Malaver.Vol.50, 2016, pp.64-73.

45.-Adiabatic Compressibility of the Variable Chaplygin gas. **AASCIT Communications**. Manuel Malaver. Vol.3, N°2, 2016, pp. 64-70.

46.- Quark Star Model with Tolman VII Type Potential. **World Scientific News**. Manuel Malaver. Vol.36, 2016, pp.1-11.

47.- New Models for Charged Anisotropic Stars with Modified Tolman IV Spacetime. **International Journal of Modern Physics and Application.** Manuel Malaver. Vol.3, N°1, 2016, pp.6-13.

48.- Los paradigmas en la Física, retardos difusionales e implicaciones didácticas. **Revista de Investigación**. Antonio D´Alessandro Martínez, José Luis Michinel y Manuel Malaver de la Fuente. Vol.39, N°86, 2015, pp.191-219.

49.- Charged Anisotropic Matter with Modified Tolman IV Potential. **Open Science Journal of Modern Physics.** Vol.2, N°5, 2015, pp.65-71.

50.- Polytropic stars with Tolman IV Type Potential. Manuel Malaver. **AASCIT Journal of Physics**. Vol.1, N°.4, 2015, pp.309-314

51.- Discrete Fourier transforms and modified second order linear ordinary differential equations. Rajanish Malekar and Manuel Malaver. **Asian Journal of Mathematics and Computer Research.** Vol. 5, N°2, 2015, pp.121-128.

52.- Relativistic Modeling of Quark Stars with Tolman IV Type Potential. Manuel Malaver. **International Journal of Modern Physics and Application**. Vol. 2, N°.1, 2015, p.1-6. https://arxiv.org/abs/1503.06678

53.- Modeling of Anisotropic Fluid Stars in Isotropic Coordinates. Neeraj Pant, Narendra Pradhan, Mohammad Hassan Murad, Manuel Malaver. **American Journal of Science and Technology.** Vol.2, N°.2, 2015, pp.43-48.

54.- Carnot engine model in a Chaplygin gas. Manuel Malaver. **Research Journal of Modeling and Simulation**. Vol. 2, N° 2, 2015, pp.42-47.

55.- Modeling Anisotropic Charged Neutron Star in Isotropic Coordinates. Ksh. Newton Singh, Narendra Pradhan, Manuel Malaver. **International Journal of Astrophysics and Space Science. Special Issue: Compact Objects in General Relativity.** Vol. 3, No. 1-1, 2015, pp. 13-20. https://arxiv.org/abs/1502.03378

56.- New analytical solutions for quark stars with charged anisotropic matter. Manuel Malaver. **International Journal of Astrophysics and Space Science. Special issue: Compact Objects in General Relativity.** Vol. 3, No. 1, 2015, pp. 6-12.

57.- Anisotropic fluid star model in isotropic coordinates. Neeraj Pant, Narendra Pradhan y Manuel Malaver. **International Journal of Astrophysics and Space Science. Special issue: Compact Objects in General Relativity.** Vol. 3, No. 1, 2015, pp. 1-5. https://arxiv.org/abs/1410.5808

58.-Models for quark stars with charged anisotropic matter. Manuel Malaver. **Research Journal of Modeling and Simulation**, Vol.1, Issue 4 (2014), pp.65-71. https://arxiv.org/abs/1410.1524

59.- Erratum to: Anisotropic compact sphere with Van der Waals equation of state. **Astrophysics and Space Science**. Manuel Malaver. September 2014, 354:683.

60.- Some new models for strange quark stars with isotropic pressure. Manuel Malaver. **AASCIT Communications**, Vol.1, Issue 2 (2014), pp. 48-51. https://arxiv.org/abs/1406.7347

61.- Quark star model with charge distributions. Manuel Malaver.**Open Science Journal of Modern Physics**, Vol.1, issue 1 (2014), pp.6-11. https://arxiv.org/abs/1407.1936

62.- Strange Quark Star Model with quadratic equation of state.Manuel Malaver. **Frontiers of Mathematics and its applications**, Vol.1, issue 1 (2014), pp. 9-15. https://arxiv.org/abs/1407.0760

63.- Analytical model for charged polytropic stars with der Waals Modified Equation of State. Manuel Malaver. **American Journal of Astronomy and Astrophysics,** Vol.*1*, issue 4 (2013), pp: 41-46.

64.-Regular model for a quark star with Van der Waals modified equation of state. Manuel Malaver. **World Applied Programing**, Vol.*3*, issue 7 (2013), pp: 309-313.

65.- Comparative analysis of thermal capacity in Schwarzschild and Reissner-Nordström black holes. Manuel Malaver. **World Applied Programming**, Vol.*3*, issue 2 (2013), pp: 61-67.

66.- A family of traversable wormhole. Manuel Malaver. **International Journal of Research and Reviews in Applied Sciences**,Vol.*14*.issue 3 (2013), pp:539-551.

67.-A theoretical model of stable dark energy stars. Manuel Malaver y María Esculpi. **International Journal of Research and Reviews in Applied Sciences**, Vol.*14*.issue 1 (2013), pp:26-39.

68.-La optimización del trabajo en un ciclo Brayton con irreversibilidades. Manuel Malaver. **Revista Ingeniería,** Vol.*22*. *N°1* (2012), pp: 69-81.

69.-¿Law of Einstein´s thermal capacity for Schwarzschild´s Black Hole ?. Manuel Malaver. **International Journal of Research and Reviews in Applied Sciences,** Vol. *11*.issue*1* (2012), pp:31-36.

70.-Un modelo de estrella anisótropa con densidad variable en relatividad general. Manuel Malaver y María Esculpi. **Proceedings of Congress XXII of Differential Equations and Applications/XII Congress of Applied Mathematics.http://www.uibcongres.org/imgdb/archivo_dpo10339.pdf .** (2011)

71.- La relación de trabajo de retroceso de un ciclo Brayton. Manuel Malaver. **Revista de Ingeniería, Investigación y Tecnología,** Vol. *XI*. *Nº3* (2010), pp: 259-266.

72.- Análisis de las actividades y preguntas propuestas en textos universitarios de termodinámica. Manuel Malaver. **Educere,** Vol. *13. Nº 47*. (2009). pp: 961-969.

73.- Análisis comparativo de algunos modelos analíticos para estrellas de quarks. Manuel Malaver. **Revista Integración**, Vol.*27*.N°*2*. (2009), pp: 125-133.

74.- Análisis de las Temperaturas, la eficiencia térmica y el trabajo neto en un ciclo dual. Manuel Malaver. **Revista de Educación Química**,Vol.*19.Nº2* (2008).pp: 122-126.

75.- A comparative analysis of the adiabatic stability of anisotropic spherically symmetric solutions in general relativity. Maria Esculpi, Manuel Malaver y Eduardo Alomá. **General Relativity and Gravitation**, Vol.*39*.Nº.*5*(2007). pp:633-652.

76.- Análisis de los conceptos de calor, energía, trabajo y teorema de Carnot en textos universitarios de termodinámica. Eduardo Alomá y Manuel Malaver.**Revista de Enseñanza de las Ciencias**, Vol.*25*.Nº*3* (2007). pp: 387-400.

77.- La calidad científica del contenido sobre el tema de la estructura de la materia en textos universitarios de química general. Manuel Malaver, Rafael Pujol y Antonio D´Alessandro Martínez. **Revista de Enseñanza de las Ciencias**,Vol.*25*.Nº*2*(2007). pp: 229-240.

78.- Los conceptos de calor, energía, trabajo y teorema de Carnot en textos universitarios de termodinámica. Eduardo Alomá y Manuel Malaver. **Educere,** Vol. *11. Nº 38*. (2007). pp: 477-487.

79.- Análisis de actividades y preguntas propuestas sobre el tema de la estructura de la materia en textos universitarios de Química General. Manuel Malaver, Rafael Pujol y Antonio D´Alessandro Martínez, **Educación Química,** Vol. *16*. Nº.*1* (2005). pp: 93-98.

80.- Los estilos de prosa y el enfoque ciencia-tecnología-sociedad en textos universitarios de química general. Manuel Malaver, Rafael Pujol y Antonio D´Alessandro Martínez, **Revista de Enseñanza de las Ciencias**, Vol.*22*.Nº*3* (2004). pp: 441-454.

81.- Imagen de la ciencia y vinculaciones ciencia-tecnología-sociedad en textos universitarios de Química General. Manuel Malaver, Rafael Pujol y Antonio D´Alessandro Martínez, **Revista de Pedagogía**,Vol*XXV*. *Nº 72* (2004).pp: 95-121.

82.- Análisis de los estilos de prosa, el enfoque Ciencia-Tecnología-Sociedad e imagen de la ciencia en textos universitarios de química general. Manuel Malaver, Rafael Pujol y Antonio D´Alessandro Martínez. **Educación Química,** Vol.*14*. Nº *4* (2003). pp: 232-239.

83.- Análisis de las temperaturas y de la eficiencia térmica en el ciclo de Otto. Kenry Urrecheaga y Manuel Malaver. **Educación Química**, Vol.*14*.N°*3* (2003). pp:138-141.

84.-A semiempirical quantum chemical study of some local aspects of ionic conduction in poly(ethylene oxide); ion motion and rotational barriers. Vladimiro Mujica, Manuel Malaver and Fernando Ruette. **Journal of Physical Chemistry A**, Vol.*103*. N°*1* (1999), pp: 89-94.

Citation indices (H-Index)

	All	**Since 2018**
Citations	1108	748
h-index	20	17
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Published books

1.- Una contribución al modelaje de máquinas y motores térmicos. Academic Spanish publishing house (Germany).ISBN 978-3-8484-7348-9.Published on April 7, 2012. It appears in the catalogue www.eae-publishing.com .

2.- Black Holes, Wormholes and Dark Energy Stars in General Relativity. LAMBERT Academic Publishing (Germany). ISBN 978-3-659-34784-9.Published on March 8, 2103.appears in https://www.morebooks.de/store/gb/book/black-holes,-wormholes-and-dark-energy-stars-in-general-relativity/isbn/978-3-659-34784-9.

3.- Magnetars and Stellar Objects: Applications in Astrophysics. Eliva Press SRL (Moldova). ISBN 978-9994982462. Published on September 6, 2022. Appears in amazon.com - https://www.amazon.com/dp/999498246X

Scientific articles in Preparation

1.- Charged Anisotropic Models with Quadratic Equation of State

2.- New models of dark energy stars with Krori-Barua potential in Einstein-Gauss-Bonnet gravity

3.- Theoretical to Experimental Design Observables General Conjectural Modeling Transforms Measurement Instrumented PHYSICS

Awards and Distinctions

1.- Member of Editorial Board of **Venezuelan Journal of Astronomy** since 02/01/2023.

2.- Academic Editor in **International Astronomy and Astrophysics Research Journal** form 09/16/2022 to 09/15/2026

3.- Member of International Advisory Board in Scope Database since 08/01/2022. Certificate ID:**IAB0000496**

4.- **Caribbean Maritime University`s Award in Scientific Research** granted on February 14, 2022 for being ranked 11th out of the top 35 physicists in Venezuela ranked in the **AD Scientific Index.**
https://www.adscientificindex.com/scientist.php?id=825877

5.- **International Reviewer** of the PhD thesis of Amir Sultan Khan titled **PARTICLE DYNAMICS IN THE TIME CONFORMAL BLACK HOLES BACKGROUND** , PhD Scholar of Mathematics, Kohat University of Science & Tecnology (KUST), Kohat, Pakistan, june 8, 2021.

6.- **International Assesor** of academic record of Prof. Jefta Sunzu for promotion to Associate Professor at the **University of Dodoma, Tanzania** from 01/26/2023 to 02/17/2023

7.- Nominated to the **Breakthrough Prize of Fundamental Physics** for the Maritime University of the Caribbean, Venezuela, University of Carabobo, Venezuela, Islamic Azad University, Tehran, Iran, University of Dodoma, Tanzania, Bijective Physics Institute, Slovenia, Scientific Publishing House "DARWIN", Złocieniec, Poland on April 1, 2022

8.- Nominated to the **Breakthrough Prize of Fundamental Physics** for the Maritime University of the Caribbean, Venezuela, University of Carabobo, Venezuela, Islamic Azad University, Tehran, Iran, University of Dodoma, Tanzania, Bijective Physics Institute, Slovenia, Scientific Publishing House "DARWIN", Złocieniec, Poland on April 1, 2021

9.- Nominated to the **Breakthrough Prize of Fundamental Physics** for the Maritime University of the Caribbean, Venezuela, University of Carabobo, Venezuela, Islamic Azad University, Tehran, Iran, University of Dodoma, Tanzania, Bijective Physics Institute, Slovenia, Scientific Publishing House "DARWIN", Złocieniec, Poland on April 10, 2020

10.- Nominated to the **Breakthrough Prize of Fundamental Physics** for the Maritime University of the Caribbean, Universidad de Antofagasta, Chile and Islamic Azad University, Tehran, Iran, April 1, 2019

11.- Nominated to the **Breakthrough Prize of Fundamental Physics** for the Maritime University of the Caribbean and the National Experimental Polytechnic University of the Armed Forces on April 30, 2018 .

12.-Member of research promotion program since 25/11/2006 to 31/12/2008 with the rank of Investigator candidate. N°PPI:8514.

13.-Member of research promotion program since 20/01/2009 until 31/12/2010 with the rank of Researcher Level I.N°PPI:8514.

14.-Member of the stimulus program for research and innovation since June 2011 until february 2013 with the rank of Research Level A.

15.- Member of the Editorial Committee International of the **Revista Ingeniería** of the University of Costa Rica since June 24, 2013 until june 2015.

16.-Member of the Editorial Board of **Applied Science Reports** since December 27, 2013.

17.- Member of the Editorial Board of **Journal of Astronomy, Astrophysics and Space Science**, **Open Science Journal of Modern Physics and American Journal of Modern Physics and Application** from march 25, 2014 until march 25, 2016.

18.- Member of the Editorial Board of **American Journal of Modern Physics** from may 14, 2014.

19.-Member of the Editorial Board of **International Journal of Astrophysics and Space Science** from may 14, 2014.

20.-Member of the Editorial Board of **American Journal of Physics and Applications** from may 14, 2014.

21.- Lead Guest Editor of special issue **"Compact Objects in General Relativity"** in **International Journal of Astrophysics and Space Science** from June 17, 2014 until December 30, 2014.

22.- Member of the Editorial Board of **Universal Journal of Physics and Applications** since march 31, 2015 until march 30, 2018.

22.- Member of the Editorial Board of **General Scientific Researches** since July 1, 2016.

24.- Member of the Editorial Board of **World Applied Programming** since July 1, 2016.

25.- Referee of **Asian Journal of Mathematics and Computer Research, Annals of Physics, Journal of Applied Physical Science International, British Journal of Applied Science and Technology, British Journal of Mathematics and Computer Science, Journal of Geography, Environment and Earth Science International, Universal Journal of Physics and Applications, Astrophysics and Space Science,**

Enseñanza de las Ciencias, Physical Science International Journal, British Journal of Applied Science and Technology, Asian Journal of Physical Sciences, Physical Science & Biophysics Journal (PSBJ), Physics & Astronomy International Journal, Indian Journal of Physics, Modern Physics Letter A, International Journal of Avian & Wildlife Biology, Biometrics & Biostatistics International Journal, Pharmaceutical Sciences & Analytical Research Journal, Información Tecnológica, Universal Journal of Educational Research, Journal of Engineering Research and Reports, Journal of Energy Research and Reviews, International Astronomy and Astrophysics Research Journal and Journal of Advances in Mathematics and Computer Science.

26.-Academic Editor of **Physical Science International Journal** since 07/15/2017 until 07/14/2021

27.- Top reviewer in Venezuela in Publons Academy. Excellent Reviewer
https://publons.com/author/1216288/

28.- Academic Editor of **Asian Journal of Mathematics and Computer Research** since 08/17/2017 until 08/17/2020

29.- Member of the Editorial Board of **UPI Journal of Mathematics and Biostatistics** since January 26, 2018

30- Member of the Editorial Board of **Oriental Journal of Physical Sciences** since April 12, 2018

31.- Member of the Editorial Board of **Pharmaceutical Sciences & Analytical Research Journal** since April 17, 2018

32.- Member of the Editorial Board of **Applied Physics** since June 5, 2018.

33.- Member of the Editorial Board of **American Journal of Astronomy and Astrophysics** since November 27, 2018.

34.- Member of the Editorial Board of **Physical Science & Biophysics Journal (PSBJ)** since june 19, 2019.

35.- Member of the Editorial Board in **Experimental Results (Cambridge University Press)** since june 19, 2019.

36.- Guest Editor in special issue **Modelling and Simulation of Magnetars and Stellar Objects** in **International Journal of Astrophysics and Space Science** since September 10, 2019 until February 20, 2020.

37.- Member of International Advisory Board in **UMT International Conference of pure and applied sciences** (5-7) October 2017, Lahore, Pakistan.

38.- Honor's helm awarded by the Maritime University of the Caribbean on 22 March 2019 for outstanding work in academic research and encourage cooperation between university institutions.

39.- Member of the Editorial Board in **Journal of Mathematics, Statistics and Computing** since September 30, 2019.

40.- Member of the Editorial Board in **Journal of Computer Science and Artificial Intelligence** since October 17, 2019.

41.- Member of the Editorial Board in **International Journal of Physics: Study and Research** since November 27, 2019.

42.- Associate Editor in **Physics & Astronomy International Journal** since January 17, 2020.

43.- Honorable Editor in Open Access Journal of Biogeneric Science and Research since march 27, 2020

44.- Member of the Editorial Board in **Journal of Social Mathematical & Human Engineering Sciences**

Member of Scientific Societies

1.-Member of the Spanish Society of Applied Mathematics (SEMA) as of 3/3/2010.

2.-Academic Member of **Athens Institute for Education and Research** since 3/1/2016.

Memberships

1.-Member of the Association of Teachers of the Maritime University of the Caribbean (PROA) since July 25, 2011.

2.- Regular Member of the **American Association for Science and Technology (AASCIT).** Membership Number: 1001096, since February 17, 2014 until February 19, 2016 .

Tutor for Special Bachelor's Degree Work

1.-Special Degree Work, Title: **Design and construction of a device for diffusion tests compressible fluids.**

Student Name: Ramon Morillo

Obtained Degree: Mechanical Maintenance Engineer

Institution: Polytechnic University Institute "Santiago Mariño"

Date:02/05/2002

2.-Special Degree Work, Title: **Analysis of the influence of thermodynamic parameters on the thermal efficiency and net work in ignition engines and gas turbine**. Publication Citation

Student Name: Kenry Urrecheaga

Obtained Degree: Mechanical Maintenance Engineer.

Institution: Polytechnic University Institute "Santiago Mariño"

Date:05/08/2002.

3.- Title of Special Degree Work: **Evaluation of a Modified Dual-Cycle Internal Combustion Engine in Light Duty Vehicles in Caracas Venezuela.**

Student Name: Alexka Diyenith García Varela

Obtained Degree: Mechanical Engineer.

Institution: National Experimental Polytechnic University of the National Armed Forces

Date: 01/28/2021

Master's Degree Work Tutor

1.- Thesis Title**: Logistic Strategies for the Distribution of Electoral Technology Equipment and Materials through the Regional Electoral Office of the Capital District.**

Student`s Name: Eng. Tadea Rojas

Degree Obtained: Magister Scientiarum in Logistic Management

Institution: National Experimental Polytechnic University of the National Armed Forces

Date: 05/19/2021

2.- Thesis Title**: Strategic proposal to improve the quality management system in the commercial office of MOVILNET AG01 SERVICE**

Student`s Name: Eng. Juan Ramón Vásquez Ascanio

Degree Obtained: Magister Scientiarum in Logistic Management

Institution: National Experimental Polytechnic University of the National Armed Forces

Date: 05/19/2021

3.-Thesis Title**: Formulation and strategic implementation to improve road maintenance management in the conservation directorate of the Ministry of People's Power for Transport. Case: Edo Trunk 10. Apure**

Student`s Name: Eng. Alfonso Sánchez Vizcaya

Degree Obtained: Magister Scientiarum in Maintenance Management

Institution: National Experimental Polytechnic University of the National Armed Forces

Date: 06/14/2023

PhD Thesis Tutor

1.- Title of the Doctoral Thesis: **Didactic model from academic praxis in the studies of Systems Engineering UNEFA, nucleus Caracas.**

Student`s Name: MSc. Lucía Santeramo

Degree Obtained: PhD in Educational Innovations

Institution: National Experimental Polytechnic University of the National Armed Forces

Date: 11/04/2021

Jury of Special Works of Bachelor's Degree

1.- Proposal for the design of sewage collector ANARE sector, parish Naiguata Vargas state. Special Degree Bachelor submitted by Jose Gonzalez as a requirement for the degree of Works Maintenance Engineer. 01/12/2004.

2.-Design of a procedures manual and conservation systems designed to drain rain water,b elonging to the municipal corporation libertador. Caso Study: Drains, located from the lane 2 of the valley to Christopher Street Rojas, Av-car Intercommunal valley district municipality liberating capital. Special Degree Bachelor presented by Aleana Granados as a requirement to obtain the title of Works Maintenance Engineer. Date: 08/04/2005.

3.- Proposed improve to the aqueduct located in the yellow sector- street north Modesto Gonzalez-6, the municipality the Salias edo. Miranda. Fecha: 13/04/2005. Special Degree Bachelor submitted by Luis Arturo Rojas Cordova to obtain the title of Works Maintenance Engineer. Date: 13/04/2005

Jury of Master's Degree Works

1.- Title of the Degree Work: **Study of production optimization technologies based on annular pressure control for wells with low pumping efficiency belonging to the Melons Field in the Orinoco Oil Belt.**

Student`s Name: Eng. Cesar Antonio Silano Velásquez

Degree Obtained: Magister Scientiarum in Extraction of Heavy Crude

Institution: National Experimental Polytechnic University of the National Armed Forces

Date: 05/25/2015

2.- Title of the Degree Work: **Management of the Superintendency of Operational Logistics before the drilling of oil wells in correspondence to the criterion of non-productive time. (Case: Block 5 of the Junín Division of the Orinoco Oil Strip. Joint Venture).**

Student`s Name: Eng. Yithzak Valdivieso

Degree Obtained: Magister Scientiarum in Extraction of Heavy Crude

Institution: National Experimental Polytechnic University of the National Armed Forces

Date: 11/30/2017

3.- Title of the Degree Work: **Stellar Models with surface phenomena in the post-quasistatic approach**

Student`s Name: Eng. Daniel Brito

Degree Obtained: Magister Scientiarum in Theoretical and Applied Mechanics

Institution: Central University of Venezuela

Date: 12/02/2022

PhD Thesis Jury

1.- PhD Thesis Title: **Knowledge Management in the Practice of the University-Business-Government Link in Venezuela**

Student`s Name: MSc. Freddy Mancilla

Degree Obtained: PhD in Management Sciences

Institution: National Experimental Polytechnic University of the National Armed Forces

Date: 11/27/2020

Degree Work and PhD Thesis

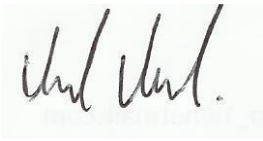
1. -"New Models of anisotropic Stars and Dark Energy in the Framework of Relativity General". Phd's Thesis in Theoretical and Applied Mechanics. Advisor: Dra María Esculpi. Department of Applied Physics. Faculty of Engineering, Central University of Venezuela, 2010.

2.- "Content Analysis Referred to the Structure of Matter in Textbooks of Basic Chemistry at University Level". Work Degree of Master in Education, mention Teaching of Chemistry recommendation approved for publication. Advisor: MSc. Rafael Pujol. University Pedagogical Experimental Libertador, Caracas Pedagogical Institute, 2001.

3.- "Theoretical Study of the Mechanism of Ionic Conduction in polyethylene oxide" Special Degree in Bachelor of Chemistry. Advisor: Dr.Vladimiro Mujica. Central University of Venezuela, Faculty of Science, School of Chemistry, 1993.

Current Research Topics

1.- Study of Strange Stars in General Relativity



Dr. Manuel Malaver de la Fuente