

CURRICULUM VITAE

- SUMMARY -

17-03-2026



<i>Last name:</i>	NĂSTĂSESCU
<i>First name:</i>	Vasile
<i>Scientific title:</i>	Eng. prof. emeritus PhD.
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<i>Home address:</i>	Str. J. L. Calderon, Nr. 27, Ap. 14, Sector 2, București 020032, ROMÂNIA
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<i>Home phone:</i>	021-3140906; 031-1068087
<i>Date of birth:</i>	24.07.1945
<i>Place of birth:</i>	Ploiești - ROMANIA
<i>Nationality:</i>	Romanian
<i>Member of Scientific Organizations or Societies:</i>	<ul style="list-style-type: none">▪ Full member of the TECHNICAL SCIENCES ACADEMY of ROMANIA (TSARR) Vice-President of Section 1, Technical Mechanics▪ Romanian Association of Fracture Mechanics (RAFM) Vice-President▪ Romanian Society of Tensometry and Materials Testing (RSTMT)
<i>PhD supervisor:</i>	1999 – In the fundamental field ENGINEERING SCIENCES , the doctoral field Mechanical Engineering
<i>University studies:</i>	2010 – Training for external evaluators in the field of higher education quality
	1997 – User and Instructor Course in Computer Aided Design, Using the AutoCAD program
	1996 – Authorized instructor for training users of the COSMOS/M program for analyzing mechanical structures using the finite element method

	1994 – Obtaining the title of DOCTOR (<i>training period 1990-1994</i>)
	1984 – Intensive foreign language course (duration 9 months), English language, Military Academy, Bucharest
	1977 – Postgraduate course (<i>6 months</i>) in the specialization “Engineers Technical Systems Analysts”, Military Academy, Bucharest
	1972 – Graduate - class leader - of the Faculty of Mechanics, Tanks and Cars Engineering Section, of the Military Academy, Bucharest
	1963-1967 – Higher Active Officers School “N. Bălcescu” (duration 4 years), Sibiu, Romania
	1959-1963 Military High School (first year at "D. Cantemir" in Breaza, then at "Ștefan cel Mare" in Câmpulung Moldovenesc), Romania
<p style="text-align: center;">Career: (with the exception of positions in MECT and the Chamber of Deputies – over 45 years of teaching activity)</p>	2010 University professor at the Military Technical Academy (<i>January 2010</i>), member of the Doctoral School
	2009 Full university professor at the Military Technical Academy (<i>01.05...12.12.2009</i>)
	2007 Parliamentary advisor (<i>head of department</i>) at the Committee for Education, Science, Youth and Sports of the Chamber of Deputies (<i>during the period</i> <i>03.09.2007...15.03.2009</i>) – <i>competition</i> ;
	2006 Full university professor at the Military Technical Academy; <i>competition (reserved position)</i> ;
	2005 Director of the University Programs Directorate of the Ministry of Education and Research (<i>in the period</i> <i>15.06.2005...03.09.2007</i>) - <i>competition</i> ;
	2004 Full university professor at the University of Bacau (<i>01.03.2003...15.06.2005</i>)
	2003 Consultant university professor at the Military Technical Academy (<i>01.10.2003...2007</i>)
	2001 Professor of Strength of Materials at the Military Technical Academy
	2001 Retired (Colonel) with pension rights (<i>August 2001, 56 years old</i>)
	1996 Head of the Department of Mathematics, Physics and Mechanics, Faculty of Armored and Aviation, Military Technical Academy, Bucharest
	1990 Professor of Strength of Materials, Military Technical Academy, Bucharest
	1984 Associate Professor, Military Academy, Bucharest
	1978 Head of Works, Military Academy, Bucharest
	1972 Assistant Professor, Military Academy, Bucharest
<p style="text-align: center;">Field of scientific activities:</p>	Strength of materials, Elasticity, Plasticity, Vibrations, Finite element method, SPH (Smoothed Particle Hydrodynamics) method, EFG (Element Free Galerkin) method, Functionally graded materials.

<p style="text-align: center;"><i>Field of scientific excellence and recognition:</i></p>	<p>Numerical analysis of mechanical structures:</p> <ul style="list-style-type: none"> • by the finite element method; • by the SPH (Smoothed Particle Hydrodynamics) method – meshless method; • by the EFG (Element Free Galerkin) method – meshfree method; <ul style="list-style-type: none"> ➤ Calculation of plates made of functionally graded materials. ➤ Textbook author – the first and only author in our country of a textbook dedicated to the calculation of structural elements made of functionally graded materials. ➤ Textbook author – the first and only author and user in our country – on the Smoothed Particle Hydrodynamics (SPH) method; ➤ Textbook author – the first and only author and user in our country – on the Free Element Galerkin method; ➤ Co-founder of the Romanian school of structural analysis using the finite element method; ➤ Creator of the MEF analysis school of mechanical structures in military education; ➤ Founder of studies using MEF or SPH of the phenomenon of penetration/perforation of armor with kinetic projectiles, in our country; ➤ Founder of studies using MEF of external ballistics problems, in our country; ➤ Carrying out advanced numerical studies on the modeling using MEF or SPH of explosions, in air, in soil or in water and their effects on armor or armored vehicle-type structures; ➤ Development of studies on the sound insulation capacity of panels using the finite element method, of acoustic propagation in open and closed environments.
<p style="text-align: center;"><i>Scientific publications, books and articles (368):</i></p>	<p><i>Books (22), plus 5 Chapters in books published abroad. Some titles:</i></p> <ul style="list-style-type: none"> • ANALYTICAL CALCULATION OF DISPLACEMENTS IN BENT STRAIGHT BARS. A NEW CALCULUS FORMULAS, V., Năstăsescu, Generis Publishing, 2025, ISBN: 979-8-89248-980-5 • CALCULUL UNOR ELEMENTE STRUCTURALE DIN MATERIALE GRADATE FUNCȚIONAL, V., Năstăsescu, Gh., Bârsan, O., Mocian, Editura ACADEMIEI ROMÂNE, București, 2025, ISBN: 978-973-27-3950-1 • ELASTICITATE ȘI PLASTICITATE. CAPITOLE SPECIALE, V., Năstăsescu, Gh., Bârsan, Editura Academiei Forțelor Terestre „Nicolae Bălcescu”, Sibiu, 2021, ISBN: 978-973-153-429-9

	<ul style="list-style-type: none"> • METODA ELEMENTELOR LIBERE GALERKIN ÎN ANALIZA STRUCTURILOR, <i>V., Năstăsescu</i>, Gh., Bârsan, Editura ACADEMIEI ROMÂNE, București, 2018, Premiul Academiei de Științe Tehnice din România, 2020, ISBN: 978-973-27-2994-6
	<ul style="list-style-type: none"> • METODA PARTICULELOR LIBERE ÎN ANALIZA NUMERICĂ A MEDIILOR CONTINUE, <i>V., Năstăsescu</i>, Gh., Bârsan, Editura AGIR, București, 2015, ISBN: 978-973-720-617-6, Lucrare distinsă cu Premiul “AUREL VLAICU” al ACADEMIEI ROMÂNE, 15-12-2017
	<ul style="list-style-type: none"> • METODA SPH (Smoothed Particle Hydrodynamics), <i>V., Năstăsescu</i>, Gh., Bârsan, Editura Academiei Forțelor Terestre, Sibiu, 2012, ISBN: 978-973-153-130-4
	<ul style="list-style-type: none"> • TESTE GRILĂ DE REZISTENȚA MATERIALELOR, <i>grup de autori</i>, Editura TEHNICA-INFO, Chișinău, 2004.
	<ul style="list-style-type: none"> • METODA ELEMENTELOR FINITE ÎN MECANICA FLUIDELOR, <i>E., Avram, V., Năstăsescu</i>, G. Maloș, Editura Academiei Tehnice Militare, București, 2003, ISBN: 973-640-008-5
	<ul style="list-style-type: none"> • REZISTENȚA MATERIALELOR – SOLICITĂRI SIMPLE, <i>V., Năstăsescu</i>, Editura Academiei Tehnice Militare, București, 2002, ISBN: 973-8290-39-2
	<ul style="list-style-type: none"> • ANALIZA NELINIARĂ A STRUCTURILOR MECANICE PRIN METODA ELEMENTELOR FINITE, <i>V., Năstăsescu</i>, A. Ștefan, C. Lupoiu, Editura Academiei Tehnice Militare, București, 2002, ISBN: 973-8290-43-0
	<ul style="list-style-type: none"> • SIMULAREA FENOMENELOR MECANICE ȘI HIDRAULICE, <i>Ș., Sterie, V., Năstăsescu</i>, ș.a., Editura Academiei Tehnice Militare, București, 2000, ISBN: 973-9456-31-6
	<ul style="list-style-type: none"> • INGINERIA SISTEMELOR PENTRU APĂRARE, <i>G. Maloș, I., I., Sandu, V., Năstăsescu</i>, Academiei Tehnice Militare, București, 2001, ISBN: 973-8290-18-X
	<ul style="list-style-type: none"> • ELEMENTE DE ANALIZĂ A MIȘCĂRII LANȚURILOR CINEMATICE ÎN CÂMPURI DE TEMPERATURI, <i>V., Năstăsescu</i>, D., Roșca, Editura "EUROPA", Craiova, 1998, ISBN: 973-9013-20-1
	Scientific articles (346) - summary:
	- international scientific events held abroad: 34
	- international scientific events held in the country: 88
	- scientific events with international participation held abroad:9
	- scientific events with international participation held in the country: 56
	- scientific events at national level: 52

	<ul style="list-style-type: none"> - scientific events at university level: 32 - scientific journals in the country: 30 - scientific journals abroad: 25 - at the Romanian Academy, its Institutes and other Romanian Academy events: 20
Official scientific advisor in the doctoral thesis analysis committees:	167 participations
Member of the Accreditation Committees for PhD Leadership	6 participations
Evaluator of scientific research programs in Romania	<ul style="list-style-type: none"> ➤ ANSTI ➤ CNCSIS ➤ RELANSIN ➤ Centers of excellence
Activities in RAQAHE (Romanian Agency for Quality Assurance in Higher Education)	<ul style="list-style-type: none"> ○ Expert member of the RAQAHE Employers' Commission ○ Accredited Evaluator – RAQAHE Register of Evaluators - Mechanical Engineering
Member of the scientific referee committees of permanent scientific publications:	<ul style="list-style-type: none"> ◆ Member of the Editorial Board of “Frattura ed Integrita Strutturale” – ITALY ◆ Scientific Committee of the Journal of Engineering Sciences and Innovation (JESI) – journal of the Technical Sciences Academy of Romania ◆ Scientific Review Committee of the journal MODELLING AND OPTIMIZATION IN THE MACHINES BUILDING FIELD, edited by the University of Bacău, under the aegis of the Romanian Academy of Technical Sciences, CNCSIS Code 461, Journal category B+ ◆ Scientific Committee of the Scientific Bulletin, Mechanical Series, ISSN 1224-6077, of the “Politehnica” University of Timișoara, CNCSIS accredited publication, category B+
Member of the scientific committee of some international events (selection):	<ul style="list-style-type: none"> 🌐 Member of Honorary Committee of The 8th International Conference on Advanced Concepts in Mechanical Engineering, ACME 2016, 2018, 2022, 2026, Technical University of Iași 🌐 Member of the Scientific Committee of the Conference Days of the Romanian Academy of Technical Sciences, Editions 13...18 (2018...2026) 🌐 Member of the Scientific Committee of the International Conferences of “Vasile Alecsandri” University of Bacău, 2018---2025

	<ul style="list-style-type: none"> ● Member of the Scientific Committee of the 24th National Symposium of Fracture Mechanics, 15-16 November 2018, Ploiești ● Member of the Scientific Committee of some international events (selection): "Knowledge-Based Organization", (KBO 2025, 2024, 2023, KBO 2022, KBO 2021, 2019, 2018, 2017, 2016, 2015, 2014, 2013, 2012, 2011, 2010) organized by the Academy of the Land Forces, Sibiu ● Member of the Honorary Committee and the Scientific Committee of the 15th National Symposium on Experimental Stress Analysis and Testing of Materials and of the 23rd National Symposium on Fracture Mechanics, Sibiu, 19-21 October 2017 ● Member of the Organizing Committee and the Scientific Committee of the 12th edition of the Days of the Academy of Technical Sciences of Romania, Constanța, 06-07 October 2017 ● Member of the Scientific and Review Committee of the EMECH (The 1st International Conference on Experimental Mechanics in Engineering), Brasov, June 8-9, 2016 ● Member of the International Scientific Committee of the International Conferences celebrating 55 years of higher education and 40 years of higher technical education at "Vasile Alecsandri" University of Bacau, June 2-4, 2016. ● Member of the International Scientific Committee of the 14th Symposium on Experimental Stress Analysis and Materials Testing, May 23-25, 2013, Timișoara, Romania – ARTENS Conference (Romanian Tensometry Association).
<p><i>Abroad participation and representation of the MER (Ministry of Education and Research)</i></p>	<p>Ohrid (Macedonia), Haga (Olanda), Beijing și Shanghai (China), Sankt Petersburg (Rusia), Belgrad (Serbia), Bruxelles (Belgia), Viena (Austria), Zagreb (Croația), Cernăuți și Solotvino (Ukraina).</p>
<p><i>Participation in NATO scientific and technical activities</i></p>	<p>Responsible for the specialists for the representation of the Romanian army in Land Group No. 2 within the NATO Land Armaments Group (NAAG-LG/2), during the period 2000-2002; NATO-HQ, Brussels – Head of Delegation</p> <hr/> <p>Participant in the scientific activities of the NATO Research and Technology Organization (NATO-RTO), Systems-Concepts-Integration Section (SCI); in 2000 in Valencia (<i>participant</i>) and in 2001 in Lisbon (<i>Head of Delegation</i>).</p>
<p><i>Known foreign languages:</i></p>	<ul style="list-style-type: none"> - - English - very good (reading, writing, speaking) - - Russian - satisfactory - - French - satisfactory