

NGUYEN DINH DUC



Dr.Sci., Full Professor

The member of the Central Committee of the Vietnam Fatherland Front,
Term V (1999-2024) and team X (2024-2029)

Former Chairman of the University of Engineering and Technology, VNU Hanoi

Vice-President of Vietnamese Association in Mechanics

President of the network club about ensures the quality of higher education of Vietnam

The Head of Laboratory of Advanced Materials and Structures,

The Dean of Faculty of Civil Engineering - VNU Hanoi,

University of Engineering and Technology (UET)

Director of the Infrastructure Engineering Program of Vietnam-Japan University (VJU)

Director of the Automation and Informatics Program of VNU Hanoi - International School

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Google Scholar citation:

<https://scholar.google.com/citations?user=EZyXrYEAAAAJ&hl=en&oi=ao>

1. EDUCATION

B.Sc.: 1984, Hanoi State University, Faculty of Math. & Mech., Hanoi, Vietnam

Ph. D: 1991, Moscow State University, Faculty of Math. & Mech. , Moscow - Russia

Dr.Sc: (Habilitation) 1997, Laboratory of Mechanics of composite materials –

Mechanical Engineering Research Institute of Russian Academy of Sciences, Moscow
- Russia.

Post-doctoral at Moscow State University (1991-1993); **Visiting professor** at Mechanical Engineering Research Institute of Russian Academy of sciences (1998-2001); **Visiting professor** at Japan Advanced Institute of Sciences and Technology - JAIST (2006-2009); **Guest research professor** at University of Birmingham, UK (2016-2017); **Visiting professor** at Sejong University, Korea (2017- 2021); **Adjunct professor** at Korea University (2/2025 – present).

2. CAREER

- 1980-1984: Student of Dept.of. Maths. & Mech., Hanoi State University, (B.Sc – 1984).
- 1985-10/1986: Lecturer of Dept.of. Maths. & Mech., Hanoi State University.
- 10/1986- 9/1991: Post-graduate for Ph.D. Dissertation at Dept. of Maths. & Mech. , Moscow State University. (Ph.D-1991).
- 10/1991-6/1993: Post-doctoral at Dept. of Mathe. & Mecha., Moscow State University.
- 6/1993-12/1997: Post-graduate for Dr.Sci. (Dr. Habilitation) Dissertation at Laboratory of Mechanics of composite, Mechanical Engineering Research Institute of Russ. Acad. of Sci. (Dr.Sc -1997).
- 12/1997-8/1999: Researcher of Laboratory of Mechanics of composite, Mechanical Engineering Research Institute of Russian Academy of sciences.
- The member of the Central Committee of the Vietnam Fatherland Front in period 1999-2004.
- 9/1999 -12/2001: Guest Research Professor - Main researcher of Laboratory of Mechanics of composite, Mechanical Engineering research Institute of Russian Academy of sciences.
- The Vice-President and Secretary general of Vietnam Science-Technical Association in Russia (1999-12/2001). The foreign member of Russian Academy of Natural Sciences and the member of International Academy of Scientific Inventions and Patents (since 1999).
- 2/2002-6/2003: Lecture - Faculty of Mathematics, Mechanics and Information, University of Sciences, Vietnam National University - Hanoi
- 7/2002-9/2003: Expert of External Affairs and Economic Department of the Central Committee of the Vietnam Fatherland Front. Guest Lecturer of University of Sciences, Vietnam National University – Hanoi; The Head of Editorial Board of Mathematics and Physics Journal (in English) of Vietnam National University, Hanoi (since 2002).

- 9/2003-3/2004: Expert of School of Graduate Studies, Vietnam National University, Hanoi (VNU). Guest Lecturer of University of Sciences, Vietnam National University – Hanoi.
- 3/2004-9/2004: Vice-Director of Academic Affairs Department, Vietnam National University, Hanoi (VNU). Vice-President of Vietnamese Young Scientist Association in Vietnam (2004-2010).
- 10/2004-2/2005: Vice Director of Science and Technology Department, Vietnam National University, Hanoi (VNU).
- 2/2005 – 11/2008: Director of Science and Technology Department, Vietnam National University, Hanoi (VNU). The secretary of the Council for Science and Education of Vietnam National University, Hanoi.
- Associate Professor (2007). Full professor (2013). The Third Prize of “Talented Vietnamese National Award” (in Vietnam, 2008). Visiting professor at Japan Advanced Institute of Sciences and Technology (2006-2009)
- 11/2008- 9/2012: Vice President of University of Engineering and Technology - Vietnam National University, Hanoi.
- 10/2012- 5/2023: Director of Undergraduate and Postgraduate Academic Affairs Department, Vietnam National University, Hanoi.
- **Present:**
 - The member of the Central Committee of the Vietnam Fatherland Front, Term V (1999-2024) and team X (2024-2029)
 - President of the network club about ensures the quality of higher education of Vietnam (2023 – present)
 - The former Chairman of the University of Engineering and Technology, VNU Hanoi (5/2023 –11/2024).
 - Vice-President of Vietnamese Association in Mechanics, 2017-present.
 - The member of the Vietnam Professor Council in Mechanics, 2014-present.
 - The Director of Laboratory of Advanced Materials and Structures, University of Engineering and Technology (UET) - VNU Hanoi, 2015-present.
 - The Dean of the Faculty of Civil Engineering of University of Engineering and Technology (UET) – VNU Hanoi, 2018- present.
 - Director of Infrastructure Engineering Program of Vietnam-Japan University (VJU), 2016 - present.

- Director of the Automation and Informatics Program of VNU Hanoi - International School, 2020-present.

3. TEACHING EXPERIENCE

- Continuum Mechanics
- Mechanics of Deformed Solid
- Mechanics of Composite Materials
- Strength of Material and Mechanics of Structures
- Functionally Graded Materials
- The Theory of Elastic and Plastic
- The Theory of Plates and Shells
- The sustainable development in Civil Engineering
- Feng Shui in Civil Engineering
- Advanced materials in Engineering
- Application of AI in Engineering

4. RESEARCH INTEREST AND SPECIALIZATION

- Mechanics of composite materials
- Functionally Graded Materials (FGM, FG CNTRC, auxetic, penta-graphene)
- Dynamic and Vibration of Advanced Structures
- Nonlinear stability of FGM plates and shells
- Composite structures with dynamic crack propagation
- Constructions and composite structures subjected to special loads
- Piezoelectric composite and auxetic materials
- Nano composite materials in renewable Energy
- Composite with space structure (Carbon-carbon composite 3D, 4D)
- Three phases polymer composite and nanocomposite
- Advanced materials and Structures
- Multiphase flow in fluid mechanics
- Applied Mathematics and Mechanics
- Application of AI and Machine Learning in Engineering

5. BOOKS (monographs and text books)

1. **Nguyen Dinh Duc**, *The spherofibre composite with space structure*, URSS Publishing House, Moscow, Russia, 2000, 242 pages (Monograph in Russian).
2. **Nguyen Dinh Duc, Nguyen Hoa Thinh**, *Composite materials - Mechanics and Technology of manufacture*, Science and Technics Publishing House, Hanoi, Vietnam, 2002, 364 pages (Monograph in Vietnamese).
3. **Nguyen Dinh Duc, Dao Nhu Mai**, *Strength of the Materials and Structures*. Vietnam National University Press, Hanoi, 2012, 292 pages (Text book in Vietnamese).
4. **Nguyen Dinh Duc**, *Nonlinear Static and Dynamic Stability of Functionally Graded Plates and Shells*. Vietnam National University Press, Hanoi, 2014, 724 pages (Monograph in English).
5. **Nguyen Dinh Duc, Tran Quoc Quan, Pham Hong Cong**, *Nonlinear Vibration of Auxetic Plates and Shells*. Vietnam National University Press, Hanoi, 2021, 376 pages (Monograph in English).
6. **Nguyen Dinh Duc, Vu Thi Thuy Anh**, *Mechanics of Deformed Solid*. Vietnam National University Press, Hanoi, 2022, 374 pages (Text book in Vietnamese).

6. REFEREEING ACTIVITY:

6.1. Reviewer for the following ISI international journals

1. J. Computational Materials Sciences (SCI, Elsevier)
2. International Journal of Mechanical Sciences (SCI, Elsevier)
3. International Journal of Non-Linear Mechanics (SCI, Elsevier)
4. J. Composite Structures (SCIE, Elsevier)
5. J. Mechanic of Composite Materials (SCIE, Springer)
6. Journal of Engineering Mathematics (SCIE, Springer)
7. Journal of Mechanics of Science and Technology (SCIE, Springer)
8. Journal of Vibration and Control (SCIE, SAGE)
9. Journal of Composite Materials (SCIE, SAGE)
10. Journal of Vibration and Acoustic, ASME
11. Journal of Engineering Mechanics (SCI, ASCE)
12. International Journal of Structural Stability and Dynamics (SCIE, World Scientific)
13. Journal of Zhejiang University-SCIENCE A (SCIE, Springer)
14. Engineering Failure Analysis (SCIE, Elsevier)
15. Acta Astronautica (SCIE, Elsevier)

16. Meccanica (SCI, Springer)
17. Mechanics Based Design of Structures and Machines (SCI, Taylor & Francis)
18. Science and Engineering of Composite Materials (SCIE, De Gruyter)
19. ZAMM - Zeitschrift fuer Angewandte Mathematik und Mechanik (Journal of Applied Mathematics and Mechanics, Germany)
20. Cogent Engineering (UK, Taylor & Francis, Scopus journal)
21. J. of the Brazilian Society of Mechanical Sciences and Engineering (SCIE)
22. Mechanics of Advanced Materials and Structures (Taylor & Francis, SCIE)
23. Applied Mathematical Modelling (Elsevier, SCIE)
24. Journal of Theoretical and Computational Science (OMICS Publishing)
25. Scientia Iranica (SCIE, Sharif University of Technology)
26. J. Aerospace Science and Technology (Elsevier, SCI).
27. Computer Methods in Applied Mechanics and Engineering (Elsevier, SCI)
28. KSCE Journal of Civil Engineering (Springer, SCIE)
29. Mechanics Research Communications (Elsevier, SCI)
30. Ocean Engineering (Elsevier, SCI).
31. Earthquake Engineering and Engineering Vibration (Springer, SCIE)
32. Journal of Sandwich Structures and Materials (SAGE, SCIE)
33. Journal of Computational and Nonlinear Dynamics (The American Society of Mechanics Engineers)
34. Acta Mechanica (Springer, SCI)
35. Composite Part B: Engineering (Elsevier, SCI)
36. Iranian Journal of Science and Technology, Transactions of Mechanical Engineering (Publisher of Shiraz University, SCIE)
37. Engineering Optimization (Taylor & Francis, SCIE)
38. Smart Structures and Systems – International journal (Techno-Press, SCIE)
39. Part C: Journal of Mechanical Engineering Science (SAGE, SCI)
40. Advanced in Mechanical Engineering (SAGE, SCIE)
41. Advanced in Composite Material (Taylor & Francis, SCIE)
42. Journal of Mechanical Engineering Science (Proc. IMechE Part C)
43. International Journal of Mechanics and Materials Design (Springer, SCIE)
44. Applied Mathematics and Mechanics – English Edition (Springer, SCIE)

45. Engineering Structures (Elsevier, SCI)
46. Computers & Structures (Elsevier, SCI)
47. Science China Technological Sciences (Springer, SCI)
48. Intelligent Material Systems and Structures (SAGE, SCIE)
49. Advanced in Engineering Software (Elsevier, SCIE)
50. Proceeding A: Mathematical, Physical and Engineering Sciences
(The Royal Society Publishing).
51. The European Physical Journal Plus (Springer, SCI)
52. Steel and Composite Structures (Techno-Press, SCI)
53. Smart Structures and Systems (Techno-press, SCIE)
54. Earthquakes and Structures (Techno-Press, SCIE)
55. Computers & Mathematics with Applications (Elsevier, SCI)
56. International Journal of Computational Methods (World Scientific, SCIE)
57. European Journal of Environment and Civil Engineering (Taylor & Francis, SCIE)
58. Journal of Advanced Research (Elsevier, SCIE)
59. Engineering with Computers (Springer, SCIE)
60. Results in Physics (Elsevier, SCIE)
61. Journal of Thermoplastic Composite Materials (SAGE, SCIE)
62. Journal of Materials Science (Springer, SCI)
63. Engineering Computations (Emerald Publishing Limited, SCIE)
64. Ships and Offshore Structures (Taylor & Francis, SCIE)
65. Computer Modeling in Engineering & Science (Tech Science Prees, SCIE).
66. Defence Technology (Elsevier, SCIE)
67. Science Progress (SAGE, SCIE)
68. Low Frequency Noise Vibration and Active Control (SAGE, SCIE)
69. International Journal of Mechanical and Materials Engineering (Springer, SCIE)
70. Ships and Offshore Structures (Taylor & Francis, SCIE)
71. Engineering Computations (Emerald - UK, SCIE)
72. Ceramic International (Elsevier, SCIE)
73. Theoretical and Applied Fracture Mechanics (Elsevier, SCIE)
74. International Journal of Applied Mechanics (World Scientific, SCIE)

75. J of Material Research and Technology (Elsevier, SCIE)
76. Physics of Fluid (AIP Publissing, SCI)
77. Computers & Structures (Elsevir, SCI)
78. International Journal of Engineering Science (Elsevir, SCI)
79. International Journal on Interactive Design and Manufacturing (IJIDeM) (Springer, SCIE)
80. International Journal of Polymer Science (Willey, SCIE)
81. Sound and Vibration (Elsevier, SCI)
82. Nonlinear Dynamic (Springer, SCI)
83. Archives of Civil and Mechanical Engineering (Springer, SCIE)
84. Alexandria Engineering Journal (Elsevier, SCI)
85. Journal of Engineering Analysis with Boundary Elements (Elsevier, SCIE)
86. International Journal of Impact Engineering (Elsevier, SCI)

6.2. Member of Editorial Board of Journals:

- The Head of Editorial Board of Journal of Mathematics and Physics, Vietnam National University, Hanoi (since 2002).
- The member of Editorial Board (The Head of Engineering and Technology Session) of Vietnam Technology and Sciences Journal – Vietnam Ministry of Technology and Science
 - The member of Editorial Board of Vietnam Journal of Mechanics
 - The member of Editorial Advisory Board of Journal Cogent Engineering (UK, Taylor & Francis, SCIE Journal)
 - The member of Editorial Board - Journal of Science: Advanced Materials and Devices (SCIE journal, Elsevier)
 - The member of Editorial Board – Journal of Aerospace Science and Technology (SCI journal, Elsevier)
 - The member of Editorial Board - Journal of Science and Engineering of Composite Materials (De Gruyter, SCIE journal)
 - The member of Editorial Board of Journal of Mechanical Engineering Science (Proc. IMechE Part C, SCI journal, SAGE)
 - The member of Editorial Board of Journal Science Progress (SCIE journal, SAGE)
 - The member of Editorial Board of Journal of Mechanical Science and Technology (SCIE journal, Springer)
 - The member of Editorial Board of Journal of Mechanics of Composite Materials (SCIE journal, Springer).

- The member of Editorial Board of Journal of Applied Mathematics and Mechanics -Zeitschrift für Angewandte Mathematik und Mechanik, ZAMM (SCI, WILEY).
- The member of Editorail Board of the Journal “Aerospace” (SCIE, MDPI).
- The member of Editorial Board of International Journal on Interactive Design and Manufacturing (IJIDeM) (Springer, SCIE).
- The member of Editorial Board of Acta Mechanica (SCI, Spriger).
- The member of Editorial Board of International Journal of Polymer Science (SCIE, WILLEY).
- The member of Editorial Board of the Journal "Machine Science" (which is published at the Azerbaijan Technical University).
- The member of Editorial Board of the Journal “Materials Genome Engineering” (EnPress Publisher LLC).
- The member of the Vietnam Professor Council in Mechanics (2014 – present)

7. PUBLICATIONS: 387 publications (including 230 papers in International SCI, SCIE listed journals) [IF > 2.0: 204 articles; IF > 3.0: 172 articles; IF > 4.0: 153 articles; IF > 5.0: 126 articles; IF > 6.0: 82 articles; IF > 7.0: 40 articles; > 9.0: 11 articles; > 11.0: 3 articles; > 14.0: 2 articles]:

1. **Van Luan Nguyen, Van Thuong Nguyen, Nguyen Dinh Duc** (2025). *Pin-loaded hole contact in an anisotropic magneto-electroelastic plate*. International Journal of Mechanical Sciences, 302 (2025) 110551 (Elsevier, SCI, IF=9.4).
2. **Nguyen Van Huong, Pham Hong Cong, Nguyen Dinh Duc** (2025). *Nonlinear buckling and vibration of electromagnetic sandwich plates with graphene-origami-reinforced copper matrix layers and a functionally graded porous core in thermal environment*. Aerospace Science and Technology, 166 (2025) 110596 (Elsevier, SCI, IF=5.6).
3. **Minh-Chien Trinh, Hyungmin Jun, Nguyen Dinh Duc, Seung-Eock Kim and Duc-Kien Thai** (2025). *Stochastic static behaviors and dynamic responses of pentagraphene plates*. Structural Engineering and Mechanics, Vol. 95, No. 2 (2025) 113-127 (Techno-Press, SCIE, IF=3.0).
4. **Ngo Dinh Dat, Vu Dinh Giang, Vu Thi Thuy Anh, Nguyen Dinh Duc** (2025). *Application of machine learning in crack propagation prediction of FGM structures*. International Journal on Interactive Design and Manufacturing (IJIDeM) (Springer, SCIE, IF = 2.1), DOI: 10.1007/s12008-025-02359-7.
5. **Ngoc Nhi Nguyen, Long Hoang Duong, Duc Nguyen Dinh, Yong Cao, and Viet Dung Duong** (2025). *A numerical study on dynamic flow around permeable semicircular cylinder at Reynolds number of 150*, Physics of Fluids, 37 (7), 073633 (2025), DOI: 10.1063/5.0278215 (AIP Publishing, SCI, IF= 4.1).

6. **Van Duc Nguyen, Ngoc Nhi Nguyen, Duc Dinh Nguyen, Viet Dung Duong** (2025). *A numerical study on bio-inspired flapping wing dynamics using 2 scalable IB-LBM and Liutex identification methods*. CEAS Aeronautical Journal, <https://doi.org/10.1007/s13272-025-00860-z> (Springer, IF=1.43).
7. **Vu Thi Thuy Anh, Tran Hiep Dinh, Vu Dinh Giang, Cong Hieu Le, Ngo Dinh Dat, Nguyen Dinh Duc** (2025). *Concrete Crack Simulation and Its Machine Learning Application in Propagation Prediction*. Archives of Civil and Mechanical Engineering, Vol. 25, article number 173, (2025), (Springer, SCIE, IF= 4.04).
8. **Xuan Thanh Nguyen, Van Thuong Nguyen, Nguyen Dinh Duc** (2025). *Tilted indentation by a flat-ended punch on an anisotropic magneto-electroelastic half-plane*. European Journal of Mechanics-A/Solid, 113 (2025) 105718 (Elsevier, SCI, IF=4.87).
9. **Tran Quoc Quan, Ngo Dinh Dat, Vu Thi Thuy Anh, Do Thu Ha, Nguyen Dinh Duc** (2025). *Nonlinear buckling and post-buckling of magneto-electro-thermoelastic sandwich plate with functionally graded graphene origami-enabled auxetic metamaterial core*. Thermal Stress, <https://doi.org/10.1080/01495739.2025.2497360> (Taylor & Francis, SCI, IF = 2.6).
10. **Tran Van Ke, Phung Van Minh, Do Van Thom, Nguyen Dinh Duc** (2025). *Static and dynamic analysis of doubly-curved functionally graded porous nanoshells integrated with piezoelectric surface layers and flexoelectric effect*. Computers and Structures, 312 (2025) 107737 (Elsevier, SCI, IF=4,4).
11. **Hung The Tran, Quang Dinh Nguyen, Anh Dinh Le, Duong Thai Nguyen, Chih-Yung Wu, Gopal Sharma, Duc Dinh Nguyen** (2025). *Afterbody longitudinal cavities for drag reduction and application of artificial neural network for optimization of groove geometry*. Physics of Fluid, 37, 035117 (2025), doi: 10.1063/5.0256556 (American Institute of Physics - AIP Publishing, SCI, IF= 4,1).
12. **Vu Minh Anh, Nguyen Dinh Duc** (2025). *Optimum design, nonlinear dynamic response and vibration of Graphene reinforced laminated composite with negative Poisson's ratio under dynamic load in thermal environment*. Acta Mechanica, <https://doi.org/10.1007/s00707-025-04218-8> (Springer, SCI, Nature Index, IF= 2.166).
13. **Tran Quoc Quan, Dinh Van Dat, Nguyen Dinh Duc** (2025). *Free and forced vibration analysis of three-phase composite sandwich plate with magneto-electro-elastic facesheets*. International Journal on Interactive Design and Manufacturing <https://doi.org/10.1007/s12008-024-02219-w> (IJIDeM) (Springer, SCIE, IF = 2.1).
14. **Anh Dinh Le, Viet Ha Doan, Phuong Nguyen Thi Thu, Hung The Tran, Viet Anh Truong, Minh Do Van, Duc Dinh Nguyen, Minh Do Bach** (2025). *Performance Assessment of Savonius Wind Turbine: Impact of the Cylindrical Deflectors with Natural Shapes*. Ocean Engineering, 315(2025) 119900 (Elsevier, SCI, IF=5.5).

15. **Nguyen Dinh Duc, Tran Quoc Quan** (2024). *Geometrical Optimisation of Smart Sandwich Plates Using the Bees Algorithm*, in the book “Intelligent Engineering Optimisation with the Bees Algorithm” <https://link.springer.com/book/10.1007/978-3-031-64936-3>, p. 91-139 (Springer, 2024).
16. **Nguyen Ngoc Vinh, Nguyen Dinh Duc** (2024). *Cyclic hardening and softening behaviors in SS400 structural steel weld joints subjected to fatigue loading*. International Journal on Interactive Design and Manufacturing (IJIDeM), <https://doi.org/10.1007/s12008-024-02097-2> (Springer, SCIE, IF = 2.1).
17. **Nguyen Van Thuong, Nguyen Dinh Duc** (2024). *Frictional contact analysis between two-dimensional deformable anisotropic magneto-electro-elastic bodies via a semi-analytical method*. Journal of Engineering Analysis with Boundary Elements, 166(2024) 105858 (Elsevier, SCIE, IF= 4.2).
18. **Nguyen Dinh Duc, Nguyen Van Thuong** (2024). *Surface Green's functions for an anisotropic viscoelastic half-plane and their application to contact problems*. Journal of Engineering Analysis with Boundary Elements, 167(2024) 105884 (Elsevier, SCIE, IF= 4.2).
19. **Nguyen Van Cuong, Phung Van Minh, Bui Manh Cuong, Nguyen Dinh Duc** (2024), *Study on the influence of manufacturing tolerance of the spring beam on the sensitivity of the two-axis MEMS accelerometer*. International Journal on Interactive Design and Manufacturing (IJIDeM), <https://doi.org/10.1007/s12008-024-02003-w> (Springer, SCIE, IF = 2.1).
20. **Pham Hong Cong, Nguyen Van Huong, Truong Tich Thien, Nguyen Dinh Duc** (2024). *Nonlocal strain gradient-based geometrically nonlinear vibration analysis of double curved shallow nanoshell containing functionally graded layer*. Aerospace Science and Technology, 151(2014) 109310 (Elsevier, SCI, IF=5.6).
21. **Ngo Dinh Dat, Tran Quoc Quan, Vu Minh Anh, Phuong Tran, Nguyen Dinh Duc** (2024). *Thermal forced vibration of magneto-electro-elastic sandwich plate with penta-graphene core*. Acta Mechanica, <https://doi.org/10.1007/s00707-024-03935-w> (Springer, SCI, Nature Index, IF= 2.166).
22. **Nguyen Tien Dung, Duy Phuong Hoang, Nguyen Dinh Duc** (2024). *Experimental and numerical studies on vertical stress induced in single head-enlarged CDM columns under static load test*. Alexandria Engineering Journal, 100 (2024), 82-91 (Elsevier, SCI, IF=6.8)
23. **Pham Dinh Nguyen, Quang-Viet Vu, George Papazafeiropoulos, Nguyen Dinh Duc** (2024). *A comprehensive investigation on optimum layer thickness and fiber orientations of laminated composite plates against buckling failure under various loading conditions*. Journal of Mechanical Science and Technology, 38(9) 2024 DOI 10.1007/s12206-024-04 -y (Springer, SCIE, IF= 1.734).

24. **Vu Thi Thuy Anh, Ngo Dinh Dat, Pham Dinh Nguyen, Nguyen Dinh Duc** (2024). *A Nonlocal Higher-Order Shear Deformation Approach for Nonlinear Static Analysis of Magneto-Electro-Elastic Sandwich Micro/Nano-plates with FG-CNT Core in Hygrothermal Environment*. Aerospace Science and Technology, 147(2024) 109069 (Elsevier, SCI, IF=5.6).
25. **Nguyen Thi Hai Van, Phung Van Minh, Nguyen Dinh Duc** (2024). *Finite element modeling for static bending and free vibration analyses of double-layer non-uniform thickness FG plates taking into account sliding interactions*. Archives of Civil and Mechanical Engineering, DOI: 10.1007/s43452-024-00914-9, (Springer, SCIE, IF= 4.04).
26. **Morteza Kolooli Mogehi, Mehdi Mohammadimehr, Nguyen Dinh Duc** (2024). *Vibration analysis of a sandwich Timoshenko beam reinforced by GOAM/ CNT with various boundary conditions using VIM*. Materials Science and Engineering B, 304 (2024) 117364 (Elsevier, SCI, IF=3.6).
27. **Nguyen Van Thuong, Nguyen Dinh Khoa, Tuan Ngo, Nguyen Dinh Duc** (2024). *Analytical investigation of in-plane and out-of-plane elastic properties of bone-inspired cellular structures*. Aerospace Science and Technology, 147 (2024) 109012 (Elsevier, SCI, IF=5.6).
28. **Nguyen Van Huong, Pham Hong Cong, Nguyen Dinh Duc** (2024). *Nonlinear vibration analysis of double curved shallow sandwich shell in which the core made of three-phase nanocomposite and the two-outer layer of electromagnetic materials*. Thin Walled Structures, 196 (2024) 111501 (Elsevier, SCIE, IF = 6.4).
29. **Tran Quoc Quan, Ngo Dinh Dat, Nguyen Dinh Duc** (2024). *Vibration analysis of magneto-electro-elastic sandwich plate with auxetic graphene reinforced metal matrix composite core*. J Vibration and Control, DOI: 10.1177/10775463231222581, (SAGE, SCIE, IF = 2.633).
30. **Tran Quoc Quan, Vu Minh Anh, Nguyen Dinh Duc** (2024). *Natural frequency analysis of sandwich plate with auxetic honeycomb core and CNTRC face sheets using analytical approach and artificial neural network*. J Aerospace Science and Technology, 144 (2024) 108806 (Elsevier, SCI, IF=5.457).
31. **Pham Dinh Nguyen, Nguyen Dinh Duc** (2024). *A semi-analytical sinusoidal shear deformation theory for nonlinear dynamic response and vibration of CNT-FGM doubly curved shallow shells*. Acta Mechanica, DOI: 10.1007/s00707-023-03824-8 (Springer, SCI, Nature Index, IF= 2.166).
32. **Le-Hung Tran, Tien Hoang, Gilles Foret, Denis Duhamel, Dinh-Duc Nguyen** (2023). *Calculation of dynamic responses of railway sleepers on a nonlinear foundation*. Nonlinear Dynamic, DOI: 10.1007/s11071-023-09070-w (Springer, SCI, IF = 5.6).

33. **Tran Hiep Dinh, Vu Thi Thuy Anh, Truong Giang Nguyen, Cong Hieu Le, Nguyen Linh Trung, Nguyen Dinh Duc, Chin-Teng Lin** (2023). *Towards Vision-based Concrete Crack Detection: Automatic Simulation of Real-world Cracks*. IEEE Transactions on Instrumentation & Measurement, Vol. 72 (2023), 1-15, DOI: 10.1109/TIM.2023.3328076 (IEEE, SCIE, IF=5.6).
34. **Duc Tho Le, Lawrence H. Le, Hoai Nguyen, Emmanuel L. C. VI M. Plan, Hoai-Nam Tran, Dinh Duc Nguyen, Hai Dang Phan** (2023). *Reciprocity-based closed-form solutions to guided waves in multilayered structures subjected to time-harmonic excitations*. J. European Journal of Mechanics - A/Solids, 102 (2023) 105083 (Elsevier, SCI, IF = 4.873).
35. **Pham Minh Vuong, Nguyen Dinh Duc** (2023). *"Vibration analysis of variable thickness functionally graded toroidal shell segments"*. Archives of Civil and Mechanical Engineering, <https://doi.org/10.1007/s43452-023-00743-2> (Springer, SCIE, IF= 4.04).
36. **Phuc Minh Pham, Duc Nguyen Dinh** (2023). *Free Vibration of Cracked MEE FG Plates Resting on Elastic Foundations Using Phase Field Simulation*. Journal of Engineering Mechanics, <https://doi.org/10.1061/JENMDT.EMENG-7088> (ASCE, SCIE, IF= 3.125).
37. **Nguyen Dinh Duc, Kamran Foroutan, Seyyed Mojtaba Varedi-Koulaei, Habib Ahmadi** (2023). *Nonlinear vibration analysis of laminated composite cylindrical shell under external loading utilizing meta-heuristic optimization algorithms*. Iranian Journal of Science and Technology, Transactions of Mechanical Engineering, <https://doi.org/10.1007/s40997-023-00685-3> (Springer, SCIE, IF = 1.53).
38. **Ngo Dinh Dat, Vu Thi Thuy Anh, Nguyen Dinh Duc** (2023). *Vibration characteristics and shape optimization of FG-GPLRC cylindrical shell with Magneto-Electro-Elastic face-sheets*. Acta Mechanica, <https://doi.org/10.1007/s00707-023-03620-4> (Springer, Nature Index, SCI, IF = 2.166).
39. **Tran Quoc Quan, Ngo Dinh Dat, Nguyen Dinh Duc** (2023). *Static buckling, vibration analysis and optimization of nanocomposite multilayer perovskite solar cell*. Acta Mechanica, 234, 3893–3915 (2023), <https://doi.org/10.1007/s00707-023-03588-1> (Springer, Nature Index, SCI, IF = 2.166).
40. **Vu Thi Thuy Anh, Nguyen Dinh Khoa, Tuan Ngo, Nguyen Dinh Duc** (2023). *Vibration of hybrid eccentrically stiffened sandwich auxetic double curved shallow shells in thermal environment*. J Aerospace Science and Technology, 137 (2023) 108277 (Elsevier, SCI, IF=5.457).
41. **Minh Banh Duc, Hung Tran The, Nguyen Dinh Duc, Trinh Chu Duc & Anh Dinh Le** (2023). *Performance enhancement of savonius wind turbine by multicurve blade shape*. Energy Sources, Part A: Recovery, Utilization, and Environmental Effects (Taylor & Francis, SCIE, IF=3.477).

42. **Farzad Ebrahimi, Reza Nopour, Ali Dabbagh and Nguyen Dinh Duc** (2023). *Vibration of three-phase hybrid viscoelastic nanocomposites beams*. Journal of Mechanical Science and Technology 37 (5) 2023 (Springer, SCIE, IF= 1.734).
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387. **Dai Tran Le Vuong, Viet Vu Duc, Bao Minh Phuong Long, Hung Pham Xuan, Dat Tran Vuong Quoc, Thanh Nguyen Ha, Linh Nguyen Khanh, Khoa Nguyen Dinh, Cuong Do Duy, Duc Nguyen Dinh** (2025). *Application of Artifical Intelligence in Healthcare in Vietnam: A scoping review of current status and future research directions*. VNU Journal of Science: Medical and Pharmaceutical Sciences, Accepted for publication.

8. INVENTIONS AND PATENTS

1. Diplome of Invention N120 “The law of changes mechanical strength three-phase composite 3D by actions of spherical inclusions”. Moscow, Russia, 1999.
2. Patent N1348 “Polymer composite materials with fiberglass” of National Office of Intellectual Property of Vietnam, Jan. 2016.

9. MAIN SUPERVISIONS FOR PhD STUDENTS: 25

1. PhD Hoang Van Tung (2007-2010), thesis title: “Elastic stability of functionally graded (FGM) plates and shells ” - Main supervisor (completed in 2010).
2. PhD Dinh Khac Minh (2007-2010), thesis title: “Bending analysis for three phase composite plates in shipbuilding industry” - Main supervisor (completed in 2010).
3. PhD Tran Quoc Quan, thesis title: “Nonlinear static and dynamic stability of FGM double curved thin shallow shells on elastic foundation”, University of Engineering and Technology, Vietnam National University, Hanoi – Main supervisor (completed in 2018).
4. PhD Vu Thi Thuy Anh, thesis title: “Nonlinear stability analysis for FGM spherical shells”, University of Engineering and Technology, Vietnam National University, Hanoi – Main supervisor (completed in 2017).

5. PhD Pham Van Thu, thesis title: “Nonlinear stability of the plates in wing-manufacture for small composite hydrofoils in Vietnam” Institute of shipbuilding – Nha Trang University, Main supervisor (completed in 2020).
6. PhD Pham Hong Cong, thesis title: “Nonlinear static and dynamic stability of FGM plates”, University of Engineering and Technology, Vietnam National University, Hanoi, Main supervisor (completed in 2018).
7. PhD Nguyen Van Thanh, thesis title: “Stability and nonlinear response of functionally graded nanotube-reinforced composite structures” - Main supervisor (completed in 2022).
8. PhD Pham Minh Phuc, thesis title: “Studying effects of cracks in the FGM plates using Phase-Field theory” - Main supervisor (completed in 2022).
9. PhD Nguyen Dinh Du, thesis title: “CFEM for elastic and composite structures with crack” - Main supervisor (completed in 2022).
10. PhD Pham Minh Vuong, thesis title: “Nonlinear static and dynamic response of FGM toroidal shell segments using Third order shear deformation theory” - Main supervisor (completed in 2022).
11. PhD Do Quang Chan, thesis title: “Stability analysis of FGM conical shells” - Main supervisor (completed in 2019).
12. PhD student: Pham The Dung, MOST, Vietnam – Main supervisor (completed in 2019).
13. PhD student: Hoang Trong Nghia, VNU – Hanoi, Main supervisor (completed in 2020).
14. PhD student: Nguyen Thi Thu Ha, Main supervisor, MOST, Vietnam (completed in 2023).
15. PhD student: Pham Dinh Nguyen, University of Engineering and Technology, VNU, Hanoi – Main supervisor (completed in 2024).
16. PhD student: Ngo Dinh Dat, University of Engineering and Technology, VNU Hanoi, Main supervisor.
17. PhD student: Vu Minh Anh, University of Engineering and Technology, VNU Hanoi, Main supervisor.
18. PhD student: Dinh Van Dat, University of Engineering and Technology, VNU Hanoi, Main supervisor.
19. PhD student: Nguyen Van Huong, University of Engineering and Technology, VNU Hanoi, Main supervisor.
20. PhD student: Vu Van Du, Nha Trang University, Main supervisor.
21. PhD Student: Nguyen Van Luan, Thai Nguyen University, Main supervisor.

22. PhD student: Nguyen Xuan Thanh, Thai Nguyen University, Main supervisor.
23. PhD student: Hoang The Thinh, Thai Nguyen University, Main supervisor.
24. PhD student: Do Thi Thu Ha, University of Engineering and Technology, VNU Hanoi, Main supervisor.
25. PhD student: Nguyen Ngoc Nhi, Hanoi University of Civil Engineering, Main supervisor.

10. RESEARCH GRANTS

1. Grant of NAFOSTED code 107.02-2023.21 (2024-2026) in Mechanics
2. Grant CN.24.03 of VNU Hanoi – University of Engineering and Technology (2024-2025).
3. Grant QG.23.65 of Vietnam National University, Hanoi (2023-2024).
4. Grant CN.22.11 of VNU Hanoi – University of Engineering and Technology (2022-2024).
5. Grant CN.21.06 of VNU Hanoi – University of Engineering and Technology (2021-2022).
6. Grant QG.21.25 of Vietnam National University, Hanoi (2021-2022)
7. Grant DA.20.01 of VNU Hanoi – University of Engineering and Technology (2020-2021)
8. Government Grant number KHGD/16-20.ĐT.032 of National Science and Technology Program of Vietnam for the period of 2016-2020 "Research and development of science education to meet the requirements of fundamental and comprehensive reform education of Vietnam" (2018-2020).
9. Grant of NAFOSTED in Mechanics: “Nonlinear static and dynamic analysis of functionally graded nanocomposite plates and shells reinforced by carbon nanotubes”, Code 107.02-2018.04 (2018-2020).
10. Grant of VNU, Hanoi: “Investigation on stability and vibration of FGM structures”, “Phase-Field theory for study of buckling and free vibration of cracked FGM plate”, Code QG.17.45 (2017-2018).
11. Grant of NAFOSTED in Mechanics: “Nonlinear stability analysis of FGM structures subjected to special loads”, Code 107.02-2015.03 (2016-2018).
12. Grant of Newton Fund Code NRCP1516/1/68 (The Royal Academy of Engineering – UK) in Cooperation with University of Birmingham: “UK-Vietnam collaboration on a study of Mechanical Engineering and Advanced material science: Functionally Graded (FGM) plates and shells; three phase nanocomposite” (2016-2017).

13. Project of Vietnam National University, Hanoi: “Nonlinear analysis on stability and dynamics of functionally graded shells with special shapes” (2014-2015), code QG.14.02.
14. Project in Mechanics of NAFOSTED: "Nonlinear dynamic and static stability analysis of double curved shallow FGM shells on elastic foundation", Code 107.02–2013.06 (2013-2015).
15. Project of Vietnam National University, Hanoi “Research and Manufacturing 3 phase polymer composite for shipbuilding industry in Vietnam”, Code QGDA 12.03 (2012-2013).
16. 12. Project in Mechanics of NAFOSTED: "Nonlinear analysis of stability for functionally graded plates and shells", Code 107.02–2010.08 (2010-2012)
17. Key project of Vietnam National University, Hanoi: "Calculating for composite materials and structures" code QGTD 09.01 (2009-2010)
18. Project of Vietnam National University, Hanoi "Determining thermal expansion coefficient of composite reinforced by aligned fibre" Code QT.08.68 (2008)
19. Project of Vietnam National University, Hanoi "Three phase polymer composite", Code: QT.06-48 (2006)
20. Special Project of Vietnam National University, Hanoi “Mechanics of composite materials oriented on application” code QG.04.27 (2004-2005)

11. HONOURS AND AWARDS

- Wards for “Best paper” at ACCMS TM 2018
- Certificate of Merit granted by Minister of Education, 1983
- Certificate of Merit granted by Central Youth Union of Vietnam, 1983
- Kapitxui Silver Medal granted by Russian Academy of Natural sciences for science inventing, 1999
- Certificate of Merit granted by VNU President in 2006, 2007, 2009, 2011, 2013, 2014, 2015, 2016, 2018, 2020, 2021, 2022, 2023, 2024, 2025.
- Certificate of Merit granted by the Prime Minister of Vietnam, 2009
- Third class Labor Medal granted by the President of Vietnam, 2016
- Certificate of Merit granted by the Minister of Education of Vietnam, 2019
- Second class Labor Medal granted by the President of Vietnam, 2022
- In 2022, Prof. Nguyen Dinh Duc is one of the three professors of VNU who was voted by the Ministry of Education and Training as the best typical lecturer of Vietnamese education on the occasion of 40 years of Vietnam's educational career (1982-2022).

Awards:

- 3rd prize of Vietnamese Talents 2008 for the product "Design and manufacture of inertial navigation system for controlled moving vehicles".

- Award "Lecturer of Hanoi National University" in 2022, Award "For the cause of education" of IMG Group in 2022.

- Bao Son Award 2024 in Engineering and Technology.

- Professor Nguyen Dinh Duc was announced by the US magazine PLoS Biology to be in the list of the top 10,000 greatest influential scientists in the world in 2019, 2020, 2021, 2022, 2023, 2024.

- Top 100 scientists – ranking 74 in the world with the greatest influence in Engineering in 2024.

- In particular, in 2020, 2021, 2022, 2023, 2024 he was one of the few Vietnamese scientists working locally in the country has entered the most prestigious ranking - 100,000 scientists are ranked to greatest influence the world according to lifelong achievements.

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