



Name	Petro Fomichev
Position, Department/Faculty	Professor, Department of Aircraft Strength (102), Faculty №1
Academic Degree, Academic Title	Doctor of Technical Sciences, Professor.
Email:	p.fomichevkhai@gmail.com
ORCID iD:	0000-0002-5624-4851
Scopus Author ID:	6603134282

EDUCATION:

Basic education (university, major, year of graduation):

National Aerospace University «Kharkiv Aviation Institute», Mechanical engineer, Design and Manufacture of Aircraft, 1973

Postgraduate/Doctoral studies:

By decision of the specialized academic council of the Institute of Strength Problems of the National Academy of Sciences of Ukraine, awarded the degree of Doctor of Technical Sciences in 1992

WORK EXPERIENCE:

Professional Career (Workplace, Years, Position):

National Aerospace University "Kharkiv Aviation Institute", Department of Aircraft Strength, Professor of the Department of Aircraft Strength.

Teaching Experience:

Professor of the Department of Aircraft Strength at the National Aerospace University "Kharkiv Aviation Institute".

RESEARCH ACTIVITIES:

Main Research Areas:

testing of airplain and its components for static and fatigue strength, loading of airplain in flight taking into account the elasticity of the structure, the effect of fatigue on the physical characteristics of materials and structures, predicting the durability of structures based on changes in physical characteristics

Number of Publications (Scopus, WoS, others):

123 publications in scientific journals, including 27 publications indexed in Scopus and WoS.

Monographs, Textbooks:

3 chapters in international monographs.

Participation in Scientific Conferences:



31 conference participations

TEACHING ACTIVITIES:

Courses Taught:

Strength of airplane
Helicopter strength
Airplane reliability
Aeroelasticity
Mechanics of materials and structures
Structural mechanics
Strength analysis of airplane

Author Courses, Academic Programs:

Helicopter strength
Airplane reliability
Aeroelasticity
Strength analysis of airplane

Methodological Materials, Textbooks:

16 methodological Materials and Textbooks in various disciplines.

INTERNATIONAL ACTIVITIES:

Participated in international scientific conferences

Teaching/Lecturing Abroad:

SELECTED PUBLICATIONS:

Key Articles (Scopus, WoS, others):

Sikulskiy, V., Maiorova, K., Vorobiov, Y., Fomichev, P., Myronova, S. (2023). Convergence technology for vehicle part surface finishing. *Transport Problems*. 18(1). 117-127. DOI:

[10.20858/tp.2023.18.1.10](https://doi.org/10.20858/tp.2023.18.1.10)

Fomichev, P.A., Zarutskii, A.V. Fatigue Life Prediction for Specimens with an Open Hole with a Pre-Compressed Boundary Via the Nominal Stresses Under Regular Cyclic Loading. *Strength Mater* 51, 746–752 (2019). <https://doi.org/10.1007/s11223-019-00123-3>

Fomichev, P.A., Zarutskii, A.V. Fatigue Life Prediction by a Local Stress-Strain Criterion for Hole-Containing Specimens After Precompression of Their Material. *Strength Mater* 51, 193–201 (2019). <https://doi.org/10.1007/s11223-019-00065-w>

Books, Chapters in Collective Monographs:

Petr, F., Anatoliy, Z., Anatoliy, L. (2020). Improving Method for Measuring Engine Thrust with Tensometry Data. In: Babak, V., Isaienko, V., Zaporozhets, A. (eds) *Systems, Decision and Control in*

Energy I. Studies in Systems, Decision and Control, vol 298. Springer, Cham.

https://doi.org/10.1007/978-3-030-48583-2_4

Petr, F., Anatoliy, Z., Anatoliy, L. (2020). Researches of the Stressed-Deformed State of the Power Structures of the Plane. In: Babak, V., Isaienko, V., Zaporozhets, A. (eds) Systems, Decision and Control in Energy I. Studies in Systems, Decision and Control, vol 298. Springer, Cham.

https://doi.org/10.1007/978-3-030-48583-2_3

ADDITIONAL INFORMATION:

Language Proficiency:

English, Ukraine.

IT Skills:

MS Office, Nastran-Patran, SolidWorks, MathCad, CorelDRAW Technical