



Name	Viktor Riabkov
Position, Department/Faculty	Professor at the Department of Airplane and Helicopter Design, Department of Airplane and Helicopter Design / Faculty of Aircraft Engineering / Academician of the Academy of Engineering Sciences of Ukraine
Academic Degree, Academic Title	Doctor of Technical Science, Professor
Email:	2506lulu@gmail.com
Scopus Author ID:	57218556745
Web of Science ResearcherID:	Scopus Author ID: 58020320100.
ORCID iD:	0000-0001-6512-052X
Google Scholar:	https://scholar.google.com/citations?user=n-3ntzMAAAAJ&hl=ru
ResearchGate:	

EDUCATION:

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

Kharkiv Aviation Institute, Aircraft and Helicopter Construction, 1962

Postgraduate/Doctoral studies:

Postgraduate: Kharkiv Aviation Institute, postgraduate study at the Department of Aircraft and Helicopter Design, Faculty of Aircraft Engineering, 1966

Additional training, certification programs:

WORK EXPERIENCE:

Professional Career (Workplace, Years, Position):

Full time teaching airplanes and helicopters design related subjects since 1962.

National Aerospace University «Kharkiv Aviation Institute»

In 1962, he graduated from the Kharkiv Aviation Institute, where he has worked since then: as an assistant, senior lecturer, associate professor, and professor of the Department of Aircraft and Helicopter Structures of KhAI. In 1972–1974, V. I. Ryabkov was the deputy dean of the Faculty of Aircraft Engineering, and in 1974–1979, he was the dean of the preparatory department of KhAI. In 1986, he was awarded the title of Professor of the Department of Aircraft Structures. from 1988 to 2006 - Head of the Department of Aircraft Structures. From 1987–1999 - Vice-Rector for Academic Affairs of KhAI.

Teaching Experience:

- 62 years of teaching experience at the university, from assistant to professor in the Department of Airplane and Helicopter Design (1962- present);
- From 1987 to 1999, he was vice-rector for academic work at Kharkiv Institute of Technology.

Experience in International or National Projects:

I was engaged in scientific work in cooperation with such industrial enterprises as SE "Antonov", LLC "Progrestech-Ukraine", Research Institute of PFM.

RESEARCH ACTIVITIES:

Main Research Areas:

- Physical and fundamental constants of the structure and inequalities of gravitational and inertial masses were obtained for the first time. Theory of relativity based on biquantum modeling with substances.
- Models for the formation of masses of transport category aircraft have been developed and partially implemented with a partial change in outdated parameters and the preservation of the perfect characteristics of the base aircraft, which will significantly reduce the design and commissioning time of a new aircraft modification and significantly reduce the cost of expenses.
- Design of modifications of transport aircraft and unmanned aerial vehicles.
- The use of a fundamentally new type of energy – tachyon – in aircraft.

Number of Publications (Scopus, WoS, others):

Scopus and WoS -3, others – more 150

Monographs, Textbooks:

The scientist's bibliography includes over 140 works, including six textbooks and 24 teaching aids.

Participation in Scientific Conferences:

Participated in many international conferences (Japan, Latvia, Poland, China, Spain, Canada, Austria, Australia) (over 140 conferences).

1. Riabkov V. I., Kapitanova L.V., Kirnosov D.S.

Modeling of the aircraft parachuting during the landing // Scientific research in the modern world. Proceedings of the 11th International scientific and practical conference. Perfect Publishing. Toronto, Canada. 2023. Pp. 120-125.

URL: <https://sci-conf.com.ua/xi-mizhnarodna-naukovo-praktichna-konferentsiya-scientific-research-in-the-modern-world-24-26-08-2023-toronto-kanada-arhiv/>.

ISBN 978-1-4879-3795-9

2. Riabkov V. I., Kapitanova L.V. Kirnosov D.S.

Aircraft parachuting simulation during the landing // Scientific research in the modern world. Proceedings of the 12th International scientific and practical conference. CPN Publishing Group. Osaka, Japan. 2023. Pp. 57-62. URL: <https://sci-conf.com.ua/xii-mizhnarodna-naukovo-praktichna-konferentsiya-science-and-technology-problems-prospects-and-innovations-1-3-09-2023-osaka-yaponiya-arhiv/>

ISBN 978-4-9783419-1-4

3. Капітанова Л. В., Рябков В. І., Лось О. В. Аналіз змін мас модифікацій середньо-



транспортних літаків та їх вплив на злітно-посадкові параметри модифікацій // XXIII Міжнародний конгрес двигунобудівників : тези доп., Миколаїв, Коблево, 8–11 верес. 2020 г. Харків, 2020. С. 11.

TEACHING ACTIVITIES:

Courses Taught:

Scientific research, Design and construction of control systems and chassis of airplanes and helicopters.

Author Courses, Academic Programs:

Student research work

Methodological Materials, Textbooks:

1. Проектування шасі літаків : підручник / І. В. Рябков, В. А. Трофімов, В. М. Павленко, М. Г. Толмачов, Л. В. Капітанова, Ю. В. Бабенко. Харків : ХАІ, 2011. 340 с.

ISBN 978-966-662-245-0.

URL: <https://library.khai.edu/library/fulltexts/metod/RabkovProekyuvanna.pdf>

2. Лабораторно-практические работы по курсу «Конструирование деталей, узлов и агрегатов авиационной техники» : учеб. пособие / Л. А. Малашенко, В. Л. Малашенко, Л. И. Лосев Л. В. Капитанова, В. И. Рябков ; под общ. ред. Л. А. Малашенко. Харків : ХАИ, 2012. 188 с.

URL: https://library.khai.edu/library/fulltexts/metod/Laboratorno_Prakticheskie.pdf

3. Выбор параметров и эксплуатация авиационных колес с учетом особенностей шин и тормозов / В. И. Рябков, Л. В. Капитанова, Д. В. Тиняков, Н. Г. Толмачев. Харьков : ХАИ, 2014. 85 с.

URL: https://library.khai.edu/library/fulltexts/metod/Rabkov_Vibor_Parametrov.pdf

4. Капітанова Л. В., Рябков В. І. Будова і проектування механічних каналів основного керування літаків : навч. посіб. Харків : ХАІ, 2022. 130 с.

ISBN 978-966-662-896-4

URL: https://library.khai.edu/library/fulltexts/metod/Kapitanova_Budova.pdf

GRANTS AND PROJECTS:

Participation in International and National Projects:

Participates in scientific state topics of the National Aerospace University "Kharkiv Aviation Institute", which is confirmed by the relevant acts in 1981-2021.

Grants, Scholarships, Academic Mobility Programs:

PROFESSIONAL ACHIEVEMENTS AND AWARDS:

Honorary Titles:



Distinctions, Awards, Prizes:

Laureate of the State Prize of Ukraine (1994), awarded the medals "Veteran of Labor" (1991), "Best Inventor" (1982), the medal "Veteran of Labor" (1991), the Order "For Merit" of the III degree (2005). medal "Star of Khai" - 2024.

Membership in Professional Associations:

- For over 15 years, he worked as a member of the closed works section of the Committee on State Prizes of Ukraine (1992–2016).
- Association of Education and Science Workers, Kharkiv Aeroclub

INTERNATIONAL ACTIVITIES:

Internships:

Cooperation with Foreign Universities:

Teaching/Lecturing Abroad:

SELECTED PUBLICATIONS:

Key Articles (Scopus, WoS, others):

1. Issue of Airplane Modification Mass Variations Based on Their Structural Modelling / V. Riabkov, R. Tsukanov, O. Dveirin, L. Kapitanova, M. Kyrylenko // 16th International Scientific-practical Conference on Mathematical Modeling and Simulation of Systems. MODS'2021 : proceedings, Chernihiv, 28 June – 1 July 2021. Cham : Springer, 2021. P. 437–450. (Lecture Notes in Networks and Systems ; vol. 344. ISSN 2367-3370). Scopus

DOI: 10.1007/978-3-030-89902-8_32

URL: <https://www.springerprofessional.de/en/issue-of-airplane-modification-mass-variations-based-on-their-st/20162386>

3. Kapitanova L., Ryabkov V., Tsukanov R., Los O. Formathion Method for Transport Category Airplane Modification Main Parameters by Their Adduced Values // Інтегровані комп'ютерні технології в машинобудуванні. ІКТМ'2020 = Integrated Computer Technologies in Mechanical Engineerin. ІСТМ'2020 : тези доп. Міжнар. наук.-практ. конф., 29–30 жовт. 2020. Харків, 2020. С. 46–49. Scopus

4. Порівняльна оцінка модифікацій літаків транспортної категорії за частковими та інтегральними показниками ефективності / В. І. Рябков, А. З. Двейрін, Л. В. Капітанова, К. В. Майорова // Авіаційно-космічна техніка і технологія. 2021. № 3 (171). С. 4–12.

DOI: 10.32620/aktt.2021.3.01

URL: <http://195.88.72.95:57772/csp/nauchportal/Arhiv/AKTT/2021/AKTT321/Dveyrin.pdf>

ISSN 1727-7337, eISSN 2663-2217

5. В.И. Рябков, Н.Г. Толмачев, Открыт ли бозон Хиггса? / issn 1727-7337. Авиационно-космическая техника и технология, 2013, № 8 (105). с. 216-231/

<http://nti.khai.edu/csp/nauchportal/Arhiv/AKTT/2013/AKTT813/Ryabkov.pdf>

6. Ryabkov V, Dveirin A., Kapitanova L, Kyrylenko M.,. Formation of basic parameters areas of transport aircraft modifications under conditions of its basing. Авіаційно-космічна техніка і технологія. / Авіаційно-космічна техніка і технологія. Науково -техн. журнал / М-во освіти і науки України, Нац. аерокосм. ун-т ім. М. Є. Жуковського «Харків. авіац. ін-т». – Харків, 2021 .



– 4/172. С. 11-19...

7. R. U. Tsukanov, V. I. Ryabkov . Transport Category Airplane Flight Range Calculation Accounting Center-of-Gravity Position Shift and Engine Throttling Characteristics / Авіаційно-космічна техніка і технологія. Спецвипуск : наук. - техн. журн. / М-во освіти і науки України, Нац. аерокосм. ун-т ім. М. Є. Жуковського «Харків. авіац. ін-т». – Харків, 2021 . – 5/175. – С. 4-14.

Books, Chapters in Collective Monographs:

Рябков, В. І. Проектування шасі літаків [Текст] : підручник / В. І. Рябков, Л. В. Капітанова, В. А. Тіт. – 2-ге вид., випр. та доп. – Харків : XAI, 2023. – 360 с. – ISBN 978-966-662-245-0. – URL: https://library.khai.edu/library/fulltexts/metod/Riabkov_Proektuvanna_Shasi.pdf

Links to Citation Database Profiles:

ADDITIONAL INFORMATION:

Language Proficiency:

Ukrainian, English, Russian

IT Skills:

Social and Community Activities
Active