

CURRICULUM VITAE



NAME : PAATA REKVAVA

TITLE: Doctor of Sciences (Engineering)

CONTACT INFORMATION

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EDUCATION

- Graduated from the Moscow V. V. Kuibishev Civil Engineering High Institute, Department of Civil Engineering, Moscow, Russia, 1971.
- Post-graduated from Institute of Structural Mechanics and Earthquake Engineering Georgian Academy of Sciences (ISMEE GAS), Tbilisi, Georgia, 1978.
- Short period courses: Personal Management (1997), Local Government Transparency and Accountability (2000), Legal Drafting (2002), Tbilisi, Georgia, The Role of Standardization (2017)

ACADEMIC DEGREES

Ph.D.	Civil Engineering	1983
Doctor of Sciences (Eng.)	Earthquake Engineering	2006

MAIN RESEARCH FIELDS AND ACTIVITIES:

- Mathematical simulation of seismic effect considering regional seismological features and site effects.
- Performance based design in earthquake engineering.
- Assessment and retrofitting of buildings.
- Elaboration of design methods of earthquake behavior of shear distortion type RC buildings considering nonlinear deformations of constructive members.
- Theoretical researches of nonlinearity effects of interaction soil- interface-structure system during the earthquakes.
- Evaluation of building reliability and seismic risk on the basis of probabilistic methods.
- Elaboration of seismic isolation system.
- Seismic microzonation.

POSITIONS HELD

1971-1975 - Design Engineer, Design Institutes of Building and Rural Construction
Ministry of Georgia, Tbilisi, Georgian SSR.

1975-1978 - Postgraduate student, Institute of Structural Mechanics and Earthquake
Engineering; Georgian Academy of Sciences (ISMEE GAS), Tbilisi, Georgian SSR.

1979-1986 - Research Fellow, ISMEE GAS, Tbilisi, Georgian SSR.

- 1984-1986 - Guest Lecturer, Georgian Technical University, Tbilisi, Georgian SSR.
- 1987-1988 - Guest Research Fellow, Institute Problems of Mechanics, Academy of Sciences USSR, Moscow, USSR.
- 1986-1993 - Senior Researcher, ISMEE GAS, Tbilisi, Georgia.
- 1993-1995 - Supervisor of the research projects, ISMEE GAS, Tbilisi, Georgia.
- 1995-1996 - Vice-chairman of Local Government Board of district Khobi, Georgia.
- 1996-2002 - Head of the Staff of Committee of Regional Policy and Self-Government of The Parliament of Georgia, Tbilisi, Georgia.
- 2002-2003 - Guest Expert of the Committee on Civil Integration of the Parliament of Georgia in issues of relation with regions and investigation of inter-ethnic relations, Tbilisi, Georgia.
- 2003-2004 - Head of the Staff Committee on Civil Integration of the Parliament of Georgia; Tbilisi, Georgia.
- 2004-2006 - Deputy Director of Kiriak Zavriev Institute of Structural Mechanics and Earthquake Engineering Georgian Academy of Sciences.
- 2006-2007 - Director duty executor of Kiriak Zavriev Institute of Structural Mechanics and Earthquake Engineering (ISMEE).
- 2007 - 2010 - Director of Kiriak Zavriev Institute of Structural Mechanics and Earthquake Engineering (ISMEE).
- 2011 - Director of Kiriak Zavriev Centre of Structural Mechanics and Seismic Stability of Levan Samkharauli National Forensics Bureau.
- 2011-present- Chief of Construction Design Department Armed Forces Ministry of Defence of Georgia

PARTICIPATION IN SCIENTIFIC GRANTS

International research grants:

- Georgia – INTAS** „ Seismic Hazard Assessment for Big Cities In Georgia“, 1999-2001.
- NATO Sfp 974320** „ Seismic Risk in Large Cities of Caucasus. Tools for Risk Management“; 2001-2005.

National research grants:

- „Building reliability assessment on the basis of multi-level design methodology under seismic and explosion influence „ (Leader of project), 2006-2008 GNSF N 078, Georgian National Scientific Fund.
- „ Working up the spatial models of seismic influence for multi-level design considering the seismological and engineer- geological conditions of the region of Tbilisi (Leader of project), 2009- 2011 GNSF N484,Georgian National Scientific Fund .

MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS AND SCIENTIFIC SOCIETIES

- 2005-2008 Georgian National Delegate of Government Council in Earthquake Engineering Commission co-operation with the construction activities of CIS.
- Member of Scientific – Consultation Department Governing the Special Situation Ministry of Internal Affairs of Georgia.
- Since 2007 Corresponding Member of the Georgian Engineering Academy.

- 2009 President of the Georgian National Association for Earthquake Engineering and Engineering Seismology
- Since 2009 Delegate of Georgia in the European Association for Earthquake Engineering (EAEE)
- Since 2012 Member of National Catastrophes Scientific Problems Learner Commission of Georgian National Academy of Science
- Since 2013 Delegate of Georgia in the International Association for Earthquake Engineering (IAEE)
- Since 2014 Member of Technical Committee TC-5 of Georgian Agency for Standards and Metrology
- Since 2015 Director of the Georgian National Association for Earthquake Engineering and Engineering Seismology
- Since 2016 Academic Member of the Athens Institute for Education and Research
- Since 2018 an Academician and Full Member of the Georgian Academy of Fazisi Sciences
- Since 2019 a Full Member and an Academician of the Georgian Engineering Academy

EDITING, REVIEW OF BOOKS AND CONTRIBUTIONS

- “Seismic Isolation Pile Fundament”, Alma-Ata, Kazakhstan, 1987.
- „Tbilisi’s Earthquake materials on the 25th of April 2002“, Tbilisi, Georgia, 2005.
- „Building Theory and Earthquake Engineering“, Proceedings of contributions of Kiriak Zavriv Institute of Structural Mechanics and Earthquake Engineering, Tbilisi, Georgia, 2005.
- „ Seismic Safety Problems of Caucasus Region Population, Cities and Settlements,“ The First International Conference, Book of Extended Abstracts Tbilisi, Georgia, 2008.
- Analysis of Seismic Risk and Residual Seismic Resistance Structures After Military Damages, Georisk, Moscow, 2010.

EDITORIAL BOARDS MEMBERSHIP

- Scientific-Technical Journal of BUILDING (Georgia, Tbilisi)
- Journal of Civil Engineering and Architecture (USA, New York)
- Journal of Civil Engineering and Architecture Research (USA)

AWARD

The honorary title of the Best Engineer for the 2013-2014 Years. Resolution N3 17.07.2015
 Presidium of the Engineering Academy of Georgia.
 Since 2019 Honored Builder of Georgia

SELECTED PUBLICATIONS

Books (Sections) and Monographs

1. Rekvava P.A., Jabua Sh.A., Napetvaridze Sh. G., Chachava. T.N. Full-Scale Experimental and Analytical-Theoretic Investigations of Seismic Stability of the Experimental Residential House in Kutaisi. Book ‘The Science of Ware Manufacturing’, Publishing House ‘Metsniereba’, Tbilisi, Georgian SSR, 1983, pp. 55-60.

2. Chachava T. N., Rekvava P.A. Design of Large Panel Buildings under Seismic Effect by Finite Element Method. Publishing House 'Metsniereba', Tbilisi, Georgian SSR, 1986, 79 pp.
3. Rekvava P.A. Reliability of Large Panel Buildings. Book "Probabilistic Evaluations of Seismic Loads on Structures". Moscow, USSR, Publishing House 'Nauka', 1987, pp.29-33
4. Rekvava P.A. Superlement Analysis of Large Panel Building Subjected to Seismic Effect Considering the Elastic-Plastic Deformations of Connections. Book "Seismic Resistance of Structures/Modern Problems of Earthquake Engineering", Moscow, USSR, Publishing House 'Nauka' 1989, pp.158-164.
5. Rekvava P.A. Recommendations on Calculating Seismic Reliability of the Large Panel Buildings. Publishing House "Samtavisi", Tbilisi, Georgia, 1996, 30 pp.
6. Rekvava P. Modern Earthquake Engineering. Publishing House "Intelecti", Tbilisi, Georgia, 2009, 241 pp.
7. Rekvava P. Mulifaqtorial Seismic Assessmet of Buildings and Rehabilitation, Tbilisi, Georgia, TSU, 2022, 169 pp.

International Journal Articles

8. Rekvava P.A. Program of Analysis of Plane Structures Subjected to Static Effect by Finite-Element Method ('Wall'). Bulletin 'Algorithms and Programs', SFAP USSR, VNTC, Moscow, 2(28), 40,1979, pp. 27.
9. Rekvava P.A. Investigation of Deformation Mode of Seismic Resistant Large Panel Residential House of Series 135. Scientific- technical Journal 'Earthquake Engineering', CSRIBS, Moscow, USSR, №4, 1980, pp.13-16.
10. Rekvava P.A., Chachava T. N., Pirthskhalava Ts. I. Selection and Interpretation of Outlet Data in Calculation of Seismic Resistant Large Panel Buildings Using the Computer. Scientific-Technical Journal 'Earthquake Engineering', CSRIBS, Moscow, USSR, №4, 1981, pp. 4-7.
11. Rekvava P.A. Program of Analysis of Large Panel Buildings Subjected to Seismic, Wind (Considering the Pulse of Dynamic Pressure) and Static Effect Based on Finite Element Method. Bulletin 'Algorithms and Programs', SFAP USSR, VNTIC, Moscow , 1(45), N1060, 1982, pp. 35.
12. Rekvava P.A. Reliability of Large Panel Buildings Under eismic Effect. Journal 'Earthquake Engineering' Moscow, USSR,1986, N4, pp.7-10.
13. Rekvava P.A. Investigation of Deformation Mode of Large Panel Residential House of the New Type Series 148- T. Bulletin of Engineering Seismology of Academy of Sciences of Armenia SSR, N12, 1986, pp.88-92.

14. Rekvava P.A. Numerical Method of Large Panel Building Inelastic Seismic Response Evaluation. Journal "Structural Mechanics and Analysis of Structures. Moscow, USSR, 1989, №6 pp.39-43.
15. Rekvava P.A. Diagram of Elastic-Plastic Deformation of Large Panel Building Nodes at Shear. Journal "News in Technology, Analysis and Design of Reinforced Concrete Structures". Moscow Research R/Concrete Institute, Moscow, Russian Federation, 1993, pp. 88-92.
16. Rekvava P.A., Davitashvili Sh. Evaluation of Probabilistic Response Spectra Considering the Seismic Situation of Tbilisi. Journal "Earthquake Engineering", Moscow, Russian Federation, 1995, (1) pp.34-41.
17. Rekvava P., Zaalishvili V., Arabidze V. The Use of Flexible Bar Structures in Seismic Isolation System. Journal 'Earthquake Engineering. Safety of Structures.' Moscow, Russian Federation, №1, 2005, pp.36-39.
18. Rekvava P. Evaluation of Seismic Steadiness of Large Panel Building with Wide Space Between Walls Based on the Complex Design Model. Journal 'Earthquake Engineering. Safety of Structures.' Moscow, Russian Federation, №1, 2006, pp.31-35.
19. Rekvava P. Seismic Resistance of Large Panel Building with Space Between Walls of Maximum Size. Journal 'Earthquake Engineering. Safety of Structures.' Moscow, Russian Federation №1, 2007, pp.41-44.
20. Rekvava P., Mdivani K. Evaluation of Reliability of Panel Diaphragms Considering the Nonlinear Deformation of Structural Seams. Journal 'Earthquake Engineering. Safety of Structures.' Moscow, Russian Federation, №4, 2008, pp.22-26.
21. Rekvava P., Nelly Eremadze, Nana Eremadze. Evaluation of Reliability of Wall Panel with Openings Based on Plastic Deformations. Journal 'Earthquake Engineering. Safety of Structures.' Moscow, Russian Federation, №4, 2008, pp.30-32.
22. Rekvava P., Nelly Eremadze, Nana Eremadze. Elaboration of Method of Analysis of Wall Panels with Openings Based on Deformation Characteristics. Journal 'Structural Mechanics and Analysis of Structures. ' Moscow, Russian Federation, №3, 2008, pp. 35-38.
23. Rekvava P. Nonlinear Seismic Response of the System: 'Large Panel Building – Interface-Soil'. Bulletin of Central Scientific Research Institute of Building Structures 'Investigations on Theory of Buildings', Moscow, Russian Federation. №1, 2009, pp. 147-159.
24. Rekvava P. Seismic Response of Shear Distortion type Buildings. The Open Construction and Building Technology Journal. vol.3, 2009, "Modern Trends in Seismic Design". BENTHAM OPEN.
25. Rekvava P., Mdivani K. Modeling of Earthquake Ground Motion For Tbilisi Region. Global Journal of Researches in Engineering, vol.10, issue 3(ver.1), July 2010, pp.2-7.

26. Rekvava P., Mdivani K. Normalized Acceleration Response Spectra for Tbilisi City with Consideration Seismological and Ground Conditions. *Geology and Geophysics South of Russia*, 2014, 2, pp.68-79.
27. Rekvava P. Some Problems of Multilevel Design in the Earthquake Engineering. *Geology and Geophysics South of Russia*, 2016, 1, pp.168-175.
28. Rekvava P., Mdivani K. Acceleration Response Spectra for Tbilisi City with Site effects. *Challenge Journal of Structural Mechanics*, 2016, v.2, N2, 25-32p.

National Journal Articles

29. Rekvava P.A. Consideration of Ductility of Key-Joints in Analysis of Large Panel Buildings under Seismic Effect. *Bulletin of Academy of Sciences of Georgian SSR*, Tbilisi, 108, N1, 1982, pp. 101 – 104.
30. Rekvava P.A. Deformation Mode of Seismic Resistant Large Panel Building due to Prestressing of Vertical Reinforcement Bars. *Journal “Advanced Industrial-Engineering Experiences”*, Series ‘Building and Architecture’, N4, 1985. Tbilisi, Georgian SSR.
31. Rekvava P.A. Some Issues of Large Panel Building Design in Earthquake Prone Regions. ‘*Journal “Seismic Resistant Design and Construction”*’, Proceedings of ‘Georgian State Project Institute’, Tbilisi, Georgian SSR, 1986, pp.70-72
32. Rekvava P.A. Peculiarities of Method of Design and Calculation of Large Panel Buildings, Excluding the Possibility of Progressive Collapse. *Journal “Advanced Industrial-Engineering Experiences”*, Series ‘Building and Architecture’, N2, 1986. Tbilisi, Georgian SSR.
33. Rekvava P.A. About Adaptation of Program of Calculation of Large Panel Buildings under Seismic Effect by Finite Element Method Using the Computer ES. *Journal ‘Computational Mathematics and Programming’*, Tbilisi, Georgian SSR, 1986.
34. Rekvava P.A. Spatial Analysis of Large Panel Buildings Subjected to Three-Component Seismic Effect by Complex Scheme Using the Superelement System. Deposited manuscript, SRISTI of Georgia, 1986, №200-G AJ ‘Mechanics’ N6, 1986, 6D127.
35. Rekvava P.A., Mdivani K.I., Kopadze T. V. Modeling of Deformations of Nodes in Tasks of Calculation of Large Panel Buildings Under Seismic Effect. ‘*Research in sphere of Earthquake Engineering*’, Proceedings of Tbilisi Zonal SR and Experimental Design Institute, Tbilisi, Georgian SSR, 1990, pp. 42-51.
36. Rekvava P.A., Mdivani K.I Construction of Deformation Diagram for Nodes of Large Panel Buildings under Cyclic Sign-Variable Load. Preprint of ISM and EI of Georgian Academy of Sciences, Tbilisi, Georgia, 1991.
37. Rekvava P.A. The Parameters of the Design Seismic Influence for the Territory of Tbilisi. Deposited Manuscript Saktechinform N8420-G93 Tbilisi, Georgia 1993.

38. Rekvava P.A, Mdivani K.I Generation of the Earthquake Synthetic Accelerograms, Considering the Seismological Conditions of Tbilisi. Preprint, Tbilisi, Georgia, 1993.
39. Rekvava P.A For Evaluating the Acceleration of the Ground Seismic Intensities on the Territory of Tbilisi. Preprint, Tbilisi, Georgia, 1993.
40. Rekvava P.A. Definition of the Keyed Joint Damage of the Large Panel Buildings on the Basis of Hysteresis Model. Building Theory and Seismic Resistance, Proceedings of Kiriak Zavriev Institute of Structural Mechanics and Earthquake Engineering, Tbilisi, Georgia, N1, 2000, pp. 94-98.
41. Rekvava P.A. Formation of the Stiffness Matrix of the Large Panel Building's Panels Considering Nonlinear Ductility of the Nodes. Building Theory and Seismic Resistance, Proceedings of Kiriak Zavriev Institute of Structural Mechanics and Earthquake Engineering, Tbilisi, Georgia, N2, 2001, pp.137-141.
42. Rekvava P.A. Definition of the Design Parameters of the Large Panel Building Seismic Response on the Basis of the Statistic Testing Method. Building Theory and Seismic Resistance, Proceedings of Kiriak Zavriev Institute of Structural Mechanics and Earthquake Engineering, Tbilisi, Georgia, N2, 2001, pp.142-145.
43. Rekvava P. The Calculation of a Large Panel Building on the Seismic Influence with the Base in the Connection Zone Considering the Local Nonlinearity. Building Theory and Seismic Resistance. Proceedings of ISMEE named after K.Zavriev, Tbilisi, Georgia. N3, 2003, pp.71-79.
44. Rekvava P., Zaalishvili V., Arabidze V. Experimental testing of structural models of flexible-bar (brush type) seismic isolation under horizontal loads. Building Theory and Seismic Resistance. Proceedings of ISMEE named after K.Zavriev, Tbilisi, Georgia. N3, 2003, pp.80-86.
45. Rekvava P. The Seismic Response of the Load Bearing Large Panel System with Wide Space. Building Theory and Earthquake Resistance, Proceedings of K. Zavriev Institute of Structural Mechanics and Earthquake Engineering, Tbilisi, Georgia. N4, 2004, pp.43-51.
46. Rekvava P., Zaalishvili V., Arabidze V. Experimental Research of Flexible Barred Models of Seismic Isolation at Static and Dynamic Loads. Building Theory and Seismic Resistance. Proceedings of K.Zavriev Institute of Structural Mechanics and Earthquake Engineering, Tbilisi, Georgia, N4, 2004, pp.52-57.
47. Rekvava P., Zaalishvili V., Arabidze V. Numerical Analysis of the Performance of Flexible Barred Structures with Efficient Seismic Protection under Seismic Effects. Building Theory and Seismic Resistance'. Proceedings of K. Zavriev Institute of Structural Mechanics and Earthquake Engineering, Tbilisi, Georgia, N4, 2004, pp.58-65.
48. Rekvava P. Reliability Evaluation of Precast R/C Panel Buildings Based on Stochastic Ground Motion. Building Theory and Seismic Resistance'. Proceedings of K.Zavriev

Institute of Structural Mechanics and Earthquake Engineering, Tbilisi, Georgia, N5, 2005, pp.59-70.

49. Rekvava P. Mdivani K. The Physical Wear Coefficient Definition of the Large Panel Building Considering the Exploitation Term. Building Theory and Seismic Resistance. Proceedings of K. Zavriv Institute of Structural Mechanics and Earthquake Engineering Tbilisi, Georgia, N5, 2005, pp.222-225 .
50. Rekvava P., Mdivani K., Arabidze V. Some Problems of the Buildings' Performance Based Design Methodology under Earthquake. Building Theory and Seismic Resistance. Proceedings of Kiriak Zavriv Institute of Structural Mechanics and Earthquake Engineering, Tbilisi, Georgia, N5, 2005, pp. 226-232 .
51. Rekvava P., Arabidze V. Mdivani K. Performance of RC Frame Buildings under Seismic Action. Proceedings of the Intern.Conference " Problems of Structural Mechanics", Tbilisi, 2010. Journal "BUILDING" 2(17), 2010.
52. Rekvava P., Nikolashvili N. Dynamic and Static Action of Wind on the Vineyard,s Protective Roof. Scientific Journal of GNAS "Science and Technology, #10-12, 2010, gv. 165-167.
53. Rekvava P., Mdivani K. Complex Method of Determination Dynamic Factor For Performance Based Design with Consideration Seismological Conditions of Tbilisi Territory. Scientific-Technical Journal of BUILDING, Tbilisi, Georgian Technical University, #1(28), 2013, pp.6-14.
54. Rekvava P. Necessary Components of Eurocode 8- Design of Structure for Earthquake Resistance: Nationally Determined Parameters. Scientific-Technical Journal of BUILDING, Tbilisi, Georgian Technical University, #1(40), 2016, pp. 23-28.

Papers in Proceedings of National and International Conferences

55. Rekvava P.A., Djabua SH.A., Chachava T. N., Abashidze G.G. Some Research Designing Problems of Earthquake Resistance of Large Panel Buildings. Proceedings of the 6-th European Conference on Earthquake Engineering. Lyubliana, Yugoslavia, 1978, pp. 251-256.
56. Rekvava P.A. Investigation of Peculiarities of Deformation Mode of Seismic Resistant Large Panel Buildings. The 2-th Scientific-Engineering Conference of Young Scientists and Specialists "Investigation of Building Materials and Wares", PH "Metsniereba", Tbilisi, Georgian SSR, 1978, pp. 51-54.
57. Rekvava P.A. Composition of Algorithms and Programs of Analysis of Skeletonless Large Panel Buildings Subjected to Seismic Effect. United Session of Scientific-Research Institutes of South Caucasus Republics on Building'. PH 'Metsniereba', Tbilisi, Georgian SSR, 1979, pp. 148-150.

58. Rekvava P.A. About Analysis of Large Panel Buildings Considering the Combinations of Loading Effects. Jubilee Conference of Young Scientists of Tbilisi, dedicated to 60 - Anniversary of Soviet Authority Establishment in SSR of Georgia and 40 Anniversary of AS of SSRG, PH 'Metsniereba', Tbilisi, Georgian SSR ,1981, pp.429-430.
59. Rekvava P.A., Chachava T. N. Investigation of Skeletonless Building Behavior under Seismic Effect. The 3-th Republican Conference of Young Scientists 'Investigation in Sphere of Technology of Building Materials and Wares Based on', P.H. 'Metsniereba', Tbilisi, Georgian SSR, 1981, pp. 82.
60. Rekvava P.A.,Chachava T.N., Abashidze G.G. Effect of the Structure Parameters on the Formation of Seismic Load. Proceedings of the 7-th European Conference on Earthquake Engineering, Athens, Greece, 1982, pp. 155-161.
61. Rekvava P.A., Chachava T. N. Some Issues of Analysis of Large Panel Buildings Subjected to Seismic Effect. Proceedings of papers of IV Seminar "Methods of Numerical Evaluation of Seismic Effect and Use of Spectral Analysis in Earthquake Engineering", PH 'Metsniereba',Tbilisi, Georgian SSR,1983, pp. 134-135.
62. Rekvava P.A., Chachava T. N. Influence of High Strength Reinforcement Tension on Deformation Mode of Seismic Resistant Large Panel Building. Abstracts of the 5-th National Congress on Theoretical and Applied Mechanics, Varna, Bulgaria, September, 1985, p. 662.
63. Rekvava P.A. Nonelastic Ductility Influence of Nodes on Seismic Response of Large Panel Buildings. Proceedings of the 9th European Conference on Earthquake Engineering, Moscow, USSR, 1990, V7-A, pp. 118-126.
64. Rekvava P.A. Large Panel Buildings Behavior in the Earthquake of 1991 in the Republic of Georgia. Proceedings of the Second Russian-Chinese Regional Seminar on Earthquake Engineering, Moscow, Russia, 1992, pp.84-87.
65. Rekvava P.A., Abashidze G.G., Chachava T.H., Gabrichidze G.K. Engineering Analysis of the Earthquake Consequences that Occurred in Georgia on April 19, 1991. In Proceedings of the International Conference "Continental Collision Zone Earthquakes and Seismic Hazard Reduction. Erevan, Armenia, 1993.pp. 125-134.
66. Rekvava P.A. Use of Regional Models of Seismic Effect in Building Design. Proceedings of the 10-th European Conference on Earthquake Engineering, Vienna, Austria, 1994.V.1, pp.253-256.
67. Rekvava P.A. Evaluation of Seismic Response of Large Panel Buildings Considering the Ductility of Foundation. Proceedings of the '2th Russian National Conference on Earthquake Engineering and Seismic Micro zoning', 1997, Sochi, Russian Federation, pp.145-153.

68. Rekvava P.A. Seismic Reliability Assessment of Large Panel Building. Proceedings of the 11-th European Conference on Earthquake Engineering, Paris, France, 1998 Balkema, Rotterdam, ISBN 9054109823.
69. Rekvava P.A. Considering the Biaxial Effect under Mechanical Modeling of Large Panel Building Keyed Joint. "The Thin Walled Space Systems Problems" Collection of the International Symposium Proceedings, Georgian Technical University, Tbilisi, Georgia, 2001, pp. 199-202.
70. Rekvava P.A. Formation of the Stiffness Matrix of the Reinforced Concrete Panels Considering the Peculiarities of the Key Nodes Deformation under Seismic Influence. Proceedings of the Scientific Technical Conference "Building Constructions", Georgian Technical University Tbilisi, Georgia, 2001, pp. 20-21.
71. Rekvava P., Zaalishvili V., Arabidze V. Investigation of the Model of Seismic Isolation Structure Under Horizontal Seismic Load Using the Computer Technology. Information Technologies and Systems: Science and Practice. Proceedings of International Conference, Vladicaucas, Russian Federation, 2002, pp. 365-367
72. Rekvava P. Mdivani K. The Seismic Response of the Large Panel Diaphragm Considering the Peculiarities of the Joints and Base Deformation. Scientific Technical Conference "Building and XXI Century", Dedicated to the 75 Anniversary of the Building Construction Faculty of Georgian Technical University ,Tbilisi, Georgia,14-25 May 2005. pp. 124-129.
73. Rekvava P., Mdivani K. Deformation Mode of Large Panel Building Under Seismic Effect Considering the Operational Term. Proceedings of International Conference "Seismic Hazard and Seismic Risk Management in Caucasus". Vladicaucas, Russian Federation, 2006, pp.282-285.
74. Rekvava P. Investigation of Seismic Resistance of Large Panel Building with Super-Wide Spacing Between Walls. Proceedings of International Conference "Seismic Hazard and Seismic Risk Management in Caucasus", Vladicaucas, Russian Federation, 2007, pp. 89-99.
75. Rekvava P.,Zaalishvili V., Arabidze V., Gogmachadze S. Determination of Soil Seismic Movement Intensity at Demolition of Buildings by Explosion Method. Proceedings of International Conference "Seismic Hazard and Seismic Risk Management in Caucasus". Vladicaucas, Russia Federation, 2007, pp.189-196
76. Rekvava P., Mdivani K. Behavior of R/C Panel Building with Wide Spacing under Seismic Action. The International Conference on Modern Trends in Structural Engineering for Seismic Design(MTSESD-2007), October, 8-11, 2007,Ariel, Israel.
77. Rekvava P., Mdivani K. Investigation on Seismic Performances of Precast R/C Panel Buildings. Book of Papers of International Symposium on Advances in Earthquake& Structural Engineering AESE-2007, October 24-26, 2007, Antalya-Turkey, pp. 17-29.

78. Rekvava P., Nelly Eremadze, Nana Eremadze. Analysis of large Panel Structure with Opening Considering the Plastic Deformations. Book of Papers of International Symposium on Advances in Earthquake & Structural Engineering Aese2007, October 24-26, 2007, Antalya, Turkey, pp. 690-694.
79. Rekvava P., Mdivani K., Zeky Ay. Finite Element Nonlinear Analysis of Panel Buildings under Seismic Action. Proceedings of the First International Conference on Seismic Safety of Caucasus Region Population, Cities and Settlements (SSCR-2008), September 8-11, 2008, Tbilisi, Georgia. pp. 16-21.
80. Rekvava P., Mdivani K., Arabidze V. Seismic Reliability Analysis of R/C Frames Buildings. Proceedings of the First International Conference on Seismic Safety of Caucasus Region Population, Cities and Settlements (SSCR-2008), September 8-11, 2008, Tbilisi, Georgia. pp. 147-153.
81. Rekvava P., Chachava N., Lekveishvili M., Gogmachadze S. The Influence of Seismic Risk in the Preparation of Strategical Development of Tbilisi City. Proceedings of the First International Conference on Seismic Safety of Caucasus Region Population, Cities and Settlements (SSCR-2008), September 8-11, 2008, Tbilisi, Georgia. pp. 87-91.
82. Rekvava P. Method of Plastic Hinge Joints in Design of Panel Buildings under Seismic Influence. Proceedings of the 14th World Conference on Earthquake Engineering. October 12-17, 2008, Beijing, China. Paper ID: 14-0014.
83. Rekvava P., Mdivani K. Reliability of Panel Diaphragms Considering Nonlinear Deformations of Butt Joints under Seismic Effect. Proceedings of the 8th Russian National Conference on Seismic Safety of Structures and Cities and Seismic zoning, 24-29 August, 2009, Sochi, Russian Federation, pp.92-95.
84. Rekvava P., Mdivani K., Arabidze V. Seismic Response of Frame Reinforced Concrete Buildings. Proceedings of International Conference 'Actual problems of Research Using the Theory of Buildings' 10-12 November 2009, Moscow, Russian Federation.
85. Rekvava P. Some Issues of Multi- Level Design in Earthquake Engineering. Proceedings of the 3th International School-Seminar, 2-4 November, 2009, Vladicaucas, Russian Federation.
86. Rekvava P. Seismic Reliability Analysis of Structural Systems. (IMECE 2009-10686). ASME International Mechanical Engineering Congress & Exposition, November 13-19, 2009, Lake Buena Vista, Florida.
87. Rekvava P. Soil-Interface-Structure Interaction Effect On Panel Building Seismic Response. Proceedings of the International Conference on Earthquake Engineering, On the Occasion of the 40th anniversary of Banja Luka Earthquake, October 26-28th 2009, Banja Luka, Republic of Srpska, B&H.

88. Rekvava P., Mdivani K., Arabidze V. Reliability of Multistory RC Frame Buildings of Different Performance levels. Proceedings of the 14th European Conference on Earthquake Engineering, Macedonia, Skopje, 2010.
89. Rekvava P., Mdivani K. Simulation of Nonstationary Earthquake Ground Motion For Tbilisi Region. Proceedings of the 14th European Conference on Earthquake Engineering, Macedonia, Skopje, 2010.
90. Rekvava P., Mdivani K. Modeling of Seismic Ground Motions for Tbilisi Region Territory. Proceedings of the Second International Conference on Nonelastic Problems of Mechanics, Kutaisi, Georgia, 2012.
91. Rekvava P. Regional Model of Seismic Action for Tbilisi City with Consideration the Seismological Features of the Territory. International conference on Seismic Safe Construction, 24-25 October 2013, Baku.
92. Rekvava P., Mdivani K. Simulation of Seismic Action For Tbilisi City with Local Seismological Particularities And Site Effects. ECCE, GSCE, WCCE International conference, Seismics – 2014“Seismic resistance and rehabilitation of buildings”, 29-30 May, 2014, Tbilisi, Georgia, p.90-102.
93. Rekvava P., Mdivani K. Acceleration Response Spectra for Tbilisi City with Site effects. Second European Conference on Earthquake Engineering and Seismology, Istanbul, Aug. 25-29, 2014.
94. Rekvava P., Darchiashvili V. Some Results of Assessment of Earthquake Resisting Frame Buildings. International Symposium “Earthquake Resisting Construction with Application Rapidly Build Structures”, Tashkent, 2014, Nov. 27-28.
95. Darchiashvili K., Darchiashvili V., Rekvava P. Some Results of Assessment of Damaged Earthquake Resisting RC Frame Buildings. V International Scientific and Technical Conference “Model Problems of Water Management, Environmental Protection, Architecture and Construction, Tbilisi, 16-19 July, 2015, pp. 65-68.
96. Rekvava P., Mdivani K., Qajaia L. Architects and Structural Engineers Role in Building Seismic Resistant Design. II International Conference “Seismic -2018”. Tbilisi, Georgia, 30 June-1 July 2018.

Inventions

1. Rekvava P., Zaalishvili V., Arabidze V. Seismic Isolation Devise. Patent #P3099, class E04H9/02, priority 10.12.2001, The Official Bulletin of Industrial Property #11 (135), pp.13, Tbilisi, Georgia, 2003.
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