

Dr. Vladimir V. Vantsevich

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Last update 04/08/09

Research Publications	No	List of Technical Books
Technical books		
<ul style="list-style-type: none"> Published in 1987; 1991; 1998; 1998 Accepted for publication in 2009 	4 1	1. Driveline of Ground Vehicles: Theory and Design (accepted, 2009)
Book chapter accepted for publication in 2009	1	
Technical brochures published	2	2. Mobile Transport Machines: Interaction with the Surroundings (1998)
Journal research papers		
<ul style="list-style-type: none"> Published In progress 	59 5	3. Control of the Vehicle Tractive and Velocity Properties: Optimization of Mass and Geometric Parameters (1998)
Conference research papers		
<ul style="list-style-type: none"> Published In progress 	46 3	4. Energy Loading and Reliability of Differentials of Transportation and Tractive Vehicles (1991)
Certificates of invention (not listed below)	30	
Internal research reports, 1975 - 1998 (fundamental research projects sponsored by Government; not listed below)	14	5. Differentials of Wheel Vehicles (1987)

2009	
1.	A. F. Andreev, V. I. Kabanau, V. V. Vantsevich, "Driveline of Ground Vehicles: Theory and Design", V. V. Vantsevich, Scientific and Engineering Editor. A technical book, Taylor and Francis/CRC Press (manuscript accepted for publication)
2.	V. V. Vantsevich, Chapter "Mechatronics Education" in book "Mechatronics in Action", Springer. Editors: David Bradley, University of Abertay Dundee (UK) and David Russell, Penn State University, Great Valley (USA), (manuscript accepted for publication)
3.	V. V. Vantsevich, G. Thomas "Wheel-Obstacle Interactive Dynamics for Autonomous Locomotion Design", 21 th International Symposium: Dynamics of Vehicles on Roads and Tracks, KTH, Stockholm, Sweden, August 17-21, 2009 (paper in progress)
4.	G. S. Happawana, V. V. Vantsevich "Optimal Traction Dynamics of a 6x6 Terrain Vehicle", Journal of Multi-body Dynamics, Part K (paper in progress)
5.	V. V. Vantsevich, G. Mavros, B. N. Shyrokau "Transient Dynamics of a 4x4 Vehicle: Wheel Power Distribution Influence", Journal of Multi-Body Dynamics, Part K (paper in progress)
6.	V. V. Vantsevich "Inverse Dynamics Principles for Autonomous Vehicle Applications", International Journal of Vehicle Autonomous Systems, special issue: "Mechatronics for Vehicle Autonomy"; Editor – V. Vantsevich (paper in progress)
7.	V. V. Vantsevich "4x4 Vehicles: Kinematic Discrepancy Analysis and Fundamentals for Control", 2 nd Annual ASME Dynamic Systems and Control Conference, Hollywood, California, October 12-14, 2009 (paper submitted)

8.	A. F. Andreev, V. I. Kabanau, V.V. Vantsevich “Wheel Power Management Systems: Dynamics and Efficiency Evaluation”, ASME Congress, Lake Buena Vista, Florida, November 13-19, 2009 (abstract accepted)
2008	
1.	V. V. Vantsevich “Power Losses and Energy Efficiency of Multi-Wheel Drive Vehicles: A Method for Evaluation”, <i>Journal of Terramechanics</i> , Volume 45, Issue 3, pp. 89-101, 2008
2.	V. V. Vantsevich, B. N. Shyrokau (Ph.D. student) “Autonomously Operated Power-Dividing Unit for Driveline Modeling and AWD Vehicle Dynamics Control”, 1 st Annual ASME Dynamic Systems and Control Conference, University of Michigan, Ann Arbor, October 20 - 22, 2008
3.	V. V. Vantsevich, S. Henke (MSMSE student) “Modeling and Simulation of Direct/Inverse Dynamics of a Wheel”, 11 th Mechatronics Forum-Conference, IMechE and University of Limerick, Ireland, June 23-25, 2008
4.	B. N. Shyrokau (Ph.D. student), G. S. Happawana, V. V. Vantsevich “Generalized Model and Computational Algorithm for Modeling Passive Driveline Systems of AWD Automobiles”, ASME Congress, Boston, October 31 - November 6, 2008
5.	V. V. Vantsevich “Inverse Vehicle Dynamics Principles”, International Union of Theoretical and Applied Mechanics, 22nd International Congress of Theoretical and Applied Mechanics, Adelaide, Australia, 24-30 August 2008 (paper accepted for publication)
6.	V. V. Vantsevich, Ch. Stuart “All Wheel Drive Energy Efficiency”, SAE 2008 All Wheel Drive Symposium, August 20-21, 2008 (presented and posted at SAE web-site)
2007	
1.	V. V. Vantsevich “Multi-Wheel Drive Vehicle Energy/Fuel Efficiency and Traction Performance: Objective Function Analysis”, <i>Journal of Terramechanics</i> , Volume 44, Issue 3, pp. 239-353, July 2007
2.	V. V. Vantsevich, A.D. Zakrevskij, S.V. Kharytonchyk “Heavy-Duty Truck: Inverse Dynamics and Performance Control”, IMECE2007-42659, ASME Congress, Seattle, Washington, November 10-16, 2007
3.	V. V. Vantsevich, Ch. Stuart “Probabilistic Interaction Between Vehicle and Surroundings: Modelling for Control”, IMECE2007-44071, ASME Congress, Seattle, Washington, November 10-16, 2007
4.	V. V. Vantsevich “Multi-Wheel Drive Vehicles: Generalized Parameters for Dynamics Analysis”, 20 th International Symposium: Dynamics of Vehicles on Roads and Tracks, Berkeley, California, August 13-17, 2007, pp. 182-184 (extended abstract published)
5.	V. V. Vantsevich “Inverse Vehicle Dynamics for All-Wheel Drive Systems Design”, Vehicle Dynamics Expo in North America, Detroit, October 24-26, 2007 (presentation posted at VD web-site).
6.	V. V. Vantsevich “AWD Vehicles: Wheel Power Management and Performance Optimization”, Allrad/AWD Conference, Car Training Institute, Nürtingen, Germany, October 22-23, 2007 (presentation posted at CTI web-site)
7.	V. I. Kabanau, S. I. Strigunov, V. V. Vantsevich “Power Loss, Energy and Fuel Efficiency of 4x4 Vehicles: Role of Kinematic Discrepancy”, <i>Journal of Terramechanics</i> (paper in progress, submitted in November 2007)
2006	
1.	V. V. Vantsevich “Inverse Wheel Dynamics”, IMECE2006-13787, ASME Congress, Chicago, Illinois, November 5-10, 2006
2.	V. V. Vantsevich “All-Wheel Drive Mechatronic Systems: Principle of Wheel Power Management”, <i>SAE 2006 Transactions – Journal of Passenger Cars – Mechanical Systems</i> , Paper #2006-01-0580 presented at 2006 SAE Annual Congress, Detroit, March 8 – 12, 2006

3.	V. V. Vantsevich, S. K. Howell “Development of a New Master of Science in Mechatronic Systems Engineering Program”, 10 th Mechatronics Forum-Conference, IMechE and PennState Great Valley, June 19-21, 2006
4.	V. V. Vantsevich, D. A. Doubovik, A. F. Andreev, V. I. Kabanov, V. G. Ermalionok, V. S. Voiteshonok “Advanced Characteristic for the Steering Axle Driveline System of a Terrain Vehicle”, <i>Avtomobilnaya Promishlennost (Automotive Industry)</i> , 2006, N2, Moscow.
5.	V. V. Vantsevich, D. A. Doubovik, Yu. I. Nikolaev, V.E. Chvialev, V. M. Brizhanev “Limited Slip Differential”, <i>Avtomobilnaya Promishlennost (Automotive Industry)</i> , 2006, N4, Moscow.
2005	
1.	V. V. Vantsevich, D. Barz, J. Kubler, A. Schumacher (2005) „Tire Longitudinal Elasticity and Effective Rolling Radii: Experimental Method and Data”, SAE Technical paper series – 2005-01-1823, SAE Annual Congress, Detroit, April 11-14, 2005. Also published as a Special Print 920-343e-07.05 Kistler Instrumente AG
2004	
1.	V. V. Vantsevich “All-Wheel Drive Vehicle Energy Efficiency Evaluation”, <i>SAE 2004 Transactions – Journal of Passenger Cars – Mechanical Systems</i> , pp. 577-582. Paper #2004-01-0864 presented at 2004 SAE Annual Congress, Detroit, March 8 – 12, 2004.
2.	V. V. Vantsevich “Mathematical Fundamentals for Vehicle Performance Control. <i>2004 Global Powertrain Congress</i> , p.60-63, September 28-30, 2004
3.	V. V. Vantsevich, M. S. Vysotski, D. A. Doubovik “Wheel Power Control as a Tool to Control Vehicle Dynamics”, <i>Avtomobilnaya Promishlennost (Automotive Industry)</i> , 2004, N 1, Moscow.
2003	
1-2.	Guest-Editor of Special Issue on Vehicle Performance Fundamentals for Autonomous Systems Design, <i>International Journal of Vehicle Autonomous Systems (UK)</i> , Vol. 1, No 3/4, pp.271-350, 2003, and author of two papers: V. V. Vantsevich, S. Howell, M. S. Vysotski, S. Kharytonchyk “An Integrated Approach to Autonomous Vehicle Systems: Theory and Implementation”. V. V. Vantsevich, G. Lomako, A. Opeiko “Interaction Between Autonomous Vehicles and Road Surface”
3.	V. V. Vantsevich “Force Vibrations in Automotive Bevel Gear Differentials”, <i>SAE 2003 Transactions – Journal of Passenger Cars – Mechanical Systems</i> , pp. 1726-1736. Paper #2004-01-1490 presented at 2003 SAE Noise and Vibration Conference, Traverse City, Michigan, May 5 – 8, 2003.
2002	
1.	V. V. Vantsevich, M. S. Vysotski, D. A. Doubovik “Control of the Wheel Driving Forces as the Basis for Controlling Off-Road Vehicle Dynamics”, <i>SAE 2002 Transactions – Journal of Commercial Vehicles</i> , pp. 452-459. Paper #2002-01-1472 presented at 2002 SAE Int. Off-Highway Congress, Las Vegas, Nevada, March 19 – 23, 2002.
2.	V. V. Vantsevich, S. K. Howell, M. S. Vysotski, S. V. Kharytonchyk “Integrated Control of Vehicle Running Properties”, Automotive & Transportation Technology Congress & Exhibition, , Paris, France, July 9 – 11, 2002.
3.	V. V. Vantsevich, M. S. Vysotski, D. A. Doubovik “Control of Running Gear Power for Controlling Wheeled Vehicle Dynamics”, <i>Avtomobilnaya Promishlennost (Automotive Industry)</i> , Moscow, 2002.
2001	
1-2.	Guest-Editor of Special Issue on Control of Tractive and Velocity Properties of Road Vehicles, <i>International Journal of Vehicle Design (UK)</i> , 2001, Vol. 25, No 3, pp.164-259, and author of

	two papers: "Vehicle Dynamics as the Second Dynamics Problem", pp.165-169; "Optimization of Mass and Geometric Vehicle Parameters for Multiple Drive Wheel Trucks" pp.170-181.
3.	V. V. Vantsevich, L. Amani "Control of the Vehicle's Running Abilities is a Pre-condition for Designing Wheel Drive Systems", ASME Annual Congress, IMECE/DE-23266, New York, November 11-16, 2001.
4.	V. V. Vantsevich, M. S. Vysotski, D. A. Doubovik "Developing Methods for Synthesizing Vehicle Wheel Drive Systems", <i>Reports of the National Academy of Sciences of Belarus</i> , Vol. 45, N 3, 2001.
5.	V. V. Vantsevich, M. S. Vysotski, D. A. Doubovik "Control of Curvilinear Dynamics of Wheeled Vehicles", <i>Journal of the National Academy of Sciences of Belarus</i> , Physics and Technical Science, N 3, 2001.
6.	V. V. Vantsevich, D. A. Doubovik "Two-Criterion Approach to Designing a Driveline System", International Conference on Mechanical Engineering, Mechanics: Entering the 3 rd Millennium, Minsk, Belarus, November 23-24, 2000 – Minsk 2001.
2000	
1.	V. V. Vantsevich, M. S. Vysotski, D. A. Doubovik "Control of Curvilinear Dynamics of Vehicles", <i>Journal of the National Academy of Sciences of Belarus</i> , Physics and Technical Science, N 4, 2000.
2.	V. V. Vantsevich "Spur Bevel Gear Differentials: Designing Tooth Number for the Pinion and Side Gear", <i>The Journal of Automobile Engineering (UK)</i> , Vol. 214, N D7, pp.719–730, 2000.
3.	V. V. Vantsevich "Fundamentals for the Parallel Control of Normal, Longitudinal, and Lateral Wheel Dynamics", The 5 th International Symposium on Advanced Vehicle Control, ASME, August 22 – 24, 2000, Ann Arbor, Michigan.
4.	V. V. Vantsevich "Spur Bevel Differential Dynamics", 2000 ASME Annual Congress, November 5 –10, 2000, Orlando.
5.	V. V. Vantsevich, M. S. Vysotski, S. V. Kharytonchyk "Truck Tractive and Velocity Properties: Control of the Circumferential Wheel Forces", <i>Avtomobilnaya Promishlennost (Automotive Industry)</i> , 2000, N 5, Moscow.
6.	V. V. Vantsevich, D. A. Doubovik "Criteria of Vehicle Handling", deposited in BelICA (Belarus), 2000, ND200059, 17p.
1999	
1.	V. V. Vantsevich, G. S. Happawana "Cross Country Mobility of a 6WD Off-Road Tractor with Optimal Mass and Geometric Parameters", SAE Technical paper series – 1990-01-2826, Int. Off-highway & Powerplant Congress & Exposition, Indianapolis, Indiana, September 13-15, 1999.
2.	V. V. Vantsevich, D. A. Doubovik "Optimal Distribution of the Circumferential Wheel Forces to the Vehicle Drive Wheels", deposited in VINITI (Russia), N3508-B99, 1999, 12p.
3.	V. V. Vantsevich, D. A. Doubovik "Mathematical Modeling of Kinematic and Force Characteristics of an 8x8 Off-Road Vehicle to Control Its Operational Properties", deposited in VINITI (Russia), N3509-B99, 20p., 1999.
4.	V. V. Vantsevich, D. A. Doubovik "Optimization of wheel drives of a 8x8 vehicle", 2 nd Belarusian Congress on Theoretical and Applied Mechanics, Belarus, June 28-30, 1999.
1998	
1.	V. V. Vantsevich "Optimal Differentials for 4WD Single Basket Loaders", <i>International Journal of Vehicle Design (UK)</i> , Vol. 19, N 4, pp.493-503, 1998.

2.	V. V. Vantsevich, S. V. Kharytonchyk “Optimal Control of Acceleration Slip Regulation”, CSME Forum 98, Symposium on Recent Advances in Transportation Systems & Technologies, Ryerson Polytechnic University, Toronto, Ontario, Canada, May 19-22, 1998.
3.	V. V. Vantsevich, S. V. Kharytonchyk, G. S. Happawana, O. D. I. Nwokah “Basis for Logical Control of Circumferential Wheel Forces of Highway Trucks for Improving Traction and Fuel Efficiency”, SAE Technical paper series – 982790, Int. Truck & Bus Meeting & Exposition, Indianapolis, Indiana, November 16 - 18, 1998.
4.	V. V. Vantsevich, M. S. Vysotski, S. V. Kharytonchyk “Control of Wheel Dynamics”, <i>SAE 1998 Transactions</i> . Paper #980242 presented at 1998 SAE Annual Congress, Detroit, February 23-26, 1998.
5.	V. V. Vantsevich, M. S. Vysotski, L. Kh. Gileles “A New Direction in Development of Theory of Motion of Mobile Machines”, <i>Avtomobilnaya Promishlennost (Automotive Industry)</i> , Moscow, N3, 1998.
6.	V. V. Vantsevich, M. S. Vysotski, L. Kh. Gileles “Mobile Transport Machines: Interaction with the Surroundings”. Belarus, Minsk: Belaruskaya Navuka Publishing House, 1998, (monograph) .
7.	V. V. Vantsevich, M. S. Vysotski, L. Kh. Gileles “Control of the Vehicle Tractive and Velocity Properties. Optimization of Mass and Geometric Parameters”. Belarus, Minsk: Belaruskaya Navuka Publishing House, 1998, (monograph) .
8.	V. V. Vantsevich, M. S. Vysotski “Second (Inverse) Dynamics Problem as a Basis for Developing the Theory of Mobile Transportation Machines”, <i>Reports of the National Academy of Sciences of Belarus</i> , Vol. 42, N 6, 1998.
1997	
1.	V. V. Vantsevich “Actuating Vehicle Systems and Unified Limited Slip Differentials”, SAE Technical paper series – 972751, Int. Off-highway & Powerplant Congress & Exposition, Milwaukee, Wisconsin, September 8-10, 1997.
2.	V. V. Vantsevich, M. S. Vysotski, S. V. Kharytonchyk “Combining Rolling Modes of a Elastic Wheel”, <i>Reports of the National Academy of Sciences of Belarus</i> , Physics and Technical Science, Vol. 42, N 2, 1997.
3.	V. V. Vantsevich, M. S. Vysotski, S. V. Kharytonchyk “Specifics of Rolling of a Wheel with Controllable Tractive and Energy Characteristics”, <i>Journal of the National Academy of Sciences of Belarus</i> , N 1, 1997.
4.	V. V. Vantsevich, S. V. Kharytonchyk “Control of Modes of Motion of Transportation Off-Road Vehicles in Aggressive Surroundings”, XXIII Gagarin Lecturing. Technical Conference (Russia), 1997.
5.	V. V. Vantsevich, S. V. Kharytonchyk “Control of Acceleration Performance of a Tractor Truck in Unstable Road Conditions”, International Technical Conference on Transportation Safety, Homel, Belarus, 1997.
1996	
1.	V. V. Vantsevich, N. G. Maltsev, S. V. Kharytonchyk “Algorithm for Controlling the Wheel Circumferential Forces of a Tractor Truck with an Anti-Slip Regulation System”, deposited in VINITI (Russia), N2626-B96, 14 p., 1996.
2.	V. V. Vantsevich, S. V. Kharytonchyk “Modeling Kinematic and Force Characteristics of a tractor Truck for Controlling its Tractive and Velocity Properties”, deposited in VINITI (Russia), N2086-B96, 13p., 1996.
3.	V. V. Vantsevich, S. V. Kharytonchyk “Modeling Dynamic Normal Reactions of a Tractor Truck’s Wheels”, deposited in VINITI (Russia), N2085-B96, 14p., 1996.

1995	
1.	V. V. Vantsevich, A. D. Zakrevsky "Computer Aided Design for the Control of Multi-Drive Vehicles", Proceedings of the Int. Computer Aided Design of Discrete Devices Conference, Minsk, November 15-17, 1995, Vol. 2, pp.39-42.
2.	V. V. Vantsevich, M. S. Vysotski, L. Kh. Gileles, L. G. Krasnevsky "A New Direction in the Development of the Theory of Motion of Vehicles", 1 st Belarusian Congress on Theoretical and Applied Mechanics, Belarus, Minsk, February 6 – 11, 1995.
1994	
1.	V. V. Vantsevich "A New Effective Research Direction in the Field of Actuating Systems for Multi-drive Vehicles", <i>International Journal of Vehicle Design (UK)</i> , Vol. 15, Ns 3/4/5, pp.337-347, 1994.
2.	V. V. Vantsevich, M. S. Vysotski, V. I. Kabanau "Synthesis of Characteristics for Control Systems of Modes of Differentials of Multi-Wheel Drive Vehicles", <i>Journal of the National Academy of Sciences of Belarus, Physics and Technical Science</i> , N 1, 1994.
3.	V. V. Vantsevich, M. S. Vysotski, V. I. Kabanau "Directions in Developing Electronic Systems for Controlling Wheel Tractive Forces of Heavy-Duty Automobiles and Tractor Trucks" , National Academy of Science of Belarus, 37 p. (brochure), 1994.
4.	V. V. Vantsevich, M. S. Vysotski, A. D. Zakrevsky "Controlling Differentials of Multi-Wheel Drive Vehicles", National Academy of Science of Belarus, 28 p. (brochure), 1994.
5.	V. V. Vantsevich "Method of Synthesis of Characteristics for Interaxle and Interwheel Drives of Transport-Tractive Vehicles", deposited in VINITI (Russia), N719-B94, 15p., 1994.
6.	V. V. Vantsevich, R. D. Grishkevich, A.A. Shimkov "Estimating Turnability of Multi-link Articulated Vehicles", deposited in VINITI (Russia), N1339-B94, 10p., 1994.
1993	
1.	V. V. Vantsevich, G. A. Valuzhenich "Determining Geometric Parameters of Bevel Gear Differentials, deposited in VINITI (Russia), N2517-B93, 14p., 1993.
1992	
1.	V. V. Vantsevich, R. D. Grishkevich "Method for Determining Wheel Tractive Forces of a Multi-Wheel Drive Tractor in Turn", <i>Proceedings of Belarusian Agricultural Academy</i> , Gorky, Belarus, 1992.
1991	
1.	A. Kh. Lefarov, M. S. Vysotski, V. V. Vantsevich, V. I. Kabanov "Energy Loading and Reliability of Differentials of Transportation and Tractive Vehicles", Minsk: Nauka i Technika Publishing House, 1991 (monograph).
2.	V. V. Vantsevich, G. A. Valuzhenich "Probabilistic Modeling of Operational Modes of Differentials of Tractor Trucks", <i>R&D and Operating of Automobiles and Tractors</i> , Minsk: Higher Education, N 6, 1991.
1990	
1.	V. V. Vantsevich, A. Kh. Lefarov, V. I. Kabanau, V. F. Kravchuk, A. F. Panenkov, L. M. Merkushev "Tractive and Gripping Performance of a Loader", <i>Earth Moving and Road Building Machines</i> , Moscow, N3, 1990.
2.	V. V. Vantsevich, G. A. Valuzhenich "Study of Circulating Lubricant Systems of Interwheel Differentials of Tractor Trucks", <i>R&D and Operating of Automobiles and Tractors</i> , Minsk: Higher Education, V 5, 1999.
1989	
1.	V. V. Vantsevich "Synthesis of Interwheel Differentials Characteristics for Off-Road Trucks", <i>R&D and Operating of Automobiles and Tractors</i> , Minsk: Higher Education, N 4, 1989.

2.	V. V. Vantsevich, V. T. Vasilev, G. A. Valuzhenich “Fundamentals for Assessing Reliability of Trucks’ Differentials”, <i>Proceedings of Belarusian Agricultural Academy</i> , Gorky, Belarus, 1989.
3.	V. V. Vantsevich, V. G. Ermalenok “Tractive Performance of a Vehicular Machine with a Differential Driveline System”, deposited in CNIITEItractors and agricultural implements (Russia), N1205-ts89, 20p., 1989.
4.	V. V. Vantsevich, V. G. Ermalenok “Method for Calculating Wheel Circumferential Forces of 6x6 Tractors Depending on Characteristics of Interwheel Differentials”, deposited in CNIITEItractors and agricultural implements (Russia), N1206-ts89, 22p., 1989.
5.	V. V. Vantsevich, V. S. Voiteshonok, A. Kh. Lefarov “Math Model of an AWD Tractor with an Agricultural Implement Making a Turn on a Hill”, deposited in CNIITEItractors and agricultural implements (Russia), N1178-ts89, 21p., 1989.
1988	
1.	V. V. Vantsevich, M. S. Vysotski, A. I. Ignatovich, V. I. Kabanau, A. Kh. Lefarov “Studying Reliability of Parts of Differentials of Tractor Trucks”, <i>Journal of the National Academy of Sciences of Belarus</i> , Physics and Technical Science, N3, 1988.
2.	A. F. Andreev, V. V. Vantsevich, V. G. Ermalenok, L. M. Lukerchik “Choosing Kinematic Discrepancy in Driveline System of Vehicular Machine”, <i>R&D and Operating of Automobiles and Tractors</i> , Minsk: Higher Education, N 3, 1988.
3.	V. V. Vantsevich, V. G. Ermalenok, L. M. Lukerchik “General Vehicle Designs and Driveline Systems of Tractors and Vehicular Machines”, deposited in CNIITEIavtoprom (Russia), N970-ap88, 18p., 1988.
4.	V. V. Vantsevich, G. A. Valuzhenich “Study of Lubrication Systems of Trucks’ Differentials”, NAMI (R&D Automotive and Motor Institute, Moscow): 16 th R&D Conference, 1989.
1987	
1.	A. F. Andreev, V. V. Vantsevich, A. Kh. Lefarov “Differentials of Wheel Vehicles”, Moscow: Mashinostroenie Publishing House, 1987 (monograph).
2.	V. V. Vantsevich “Unification of Differentials”, <i>R&D and Operating of Automobiles and Tractors</i> , Minsk: Higher Education, N 2, 1987.
3.	V. V. Vantsevich “Improving Tractive Performance AWD Tractors”, <i>Proceedings of Belarusian Agricultural Academy</i> , Gorky, Belarus, 1987.
4.	V. V. Vantsevich, G. A. Valuzhenich “Controlling Yaw Moment of a 4x4 Vehicle”, <i>Proceedings of Belarusian Agricultural Academy</i> , Gorky, Belarus, 1987.
5.	V. V. Vantsevich, A. Kh. Lefarov, V. I. Kabanau, A. I. Ignatovich “Designing Lubrication Systems of Differentials of Modern Heavy-Duty Trucks”, deposited in CNIITEIavtoprom (Russia), N1594-ap87, 16p., 1987.
6.	V. V. Vantsevich, A. Kh. Lefarov, S. I. Strigunov “Assessing Mobility of Wheeled Tractors”, <i>Proceeding of Blagovescshensk Agricultural Institute: Vehicle Mobility</i> , Blagoveshchensk, Russia, 1987.
7.	V. V. Vantsevich, L. M. Lukerchik, S. I. Strigunov “Influence of Interwheel Differentials on Mobility and Tractive Performance of AWD Tractor”, <i>Proceeding of Blagovescshensk Agricultural Institute: Vehicle Mobility</i> , Blagoveshchensk, Russia, 1987.
8.	V. V. Vantsevich “Method for Calculating Wheel Tractive Forces of AWD Tractor in Straight Line Motion”, deposited in CNIITEItractors and agricultural implements (Russia), N861-ts87, 12p., 1987.
1986	
1.	V. P. Boikov, V. V. Vantsevich, A. Kh. Lefarov, S. I. Strigunov “Tire Tractive Characteristics of Tractors of 1.4 and 2.0 Classes”, <i>Tractors and Agricultural Implements</i> , Moscow, N1, 1986.

2.	V. V. Vantsevich, A. Kh. Lefarov, L. M. Lukerchik "Study of Driveline Systems of Tractors and Vehicular Machines", <i>R&D and Operating of Automobiles and Tractors</i> , Minsk: Higher Education, N 1, 1986.
3.	V. V. Vantsevich, V. S. Voiteshonok "Method for Calculating Torque Bias of Differential", National Seminar on Automobile Improvements, Bauman Moscow State Technical University, Moscow, 1986.
1985	
1.	V. V. Vantsevich, V. S. Voiteshonok "Kinematic Discrepancy in MTZ-82 Tractor Family", <i>News of Higher Education Institutions</i> , Bauman Moscow State Technical University, N7, 1985.
2.	V. V. Vantsevich "Mathematical Formalization of Loading Modes of Tractor Transmissions for Durability Calculation", <i>Automobile and Tractor Design</i> , Minsk: Higher Education, N20, 1985.
3.	V. V. Vantsevich, A. Kh. Lefarov "Statistical Analysis of Power, Mass and general Geometric Parameters, and Driveline Systems of Wheeled Tractors", deposited in CNIITEI tractors and agricultural implements (Russia), N625-ts85, 32p., 1985.
1984	
1.	V. V. Vantsevich, A. Kh. Lefarov "Influence of Mass and General Geometric Parameters on Traction Performance of a 6x6 Tractor", <i>Proceedings of Belarusian Agricultural Academy</i> , Gorky, Belarus, 1984.
2.	V. V. Vantsevich "Internal Processes in 2 and 4-Pinion Differentials", <i>News of Higher Education Institutions</i> , Bauman Moscow State Technical University, N10, 1984.
3.	V. V. Vantsevich, A. Kh. Lefarov "Study of Traction Performance of a 6x6 Tractor", <i>Automobile and Tractor Design</i> , Minsk: Higher Education, N19, 1984.
1983	
1.	V. V. Vantsevich, A. Kh. Lefarov "Internal Force-Loading Processes of Four Pinion Bevel Gear Differentials", <i>Bulletin of Machine Building</i> , Moscow, 1983, N 2.
2.	A. F. Andreev, V. V. Vantsevich, A. Kh. Lefarov, S. I. Strigunov "Power Loss in Running Gear System of AWD Tractors", <i>Tractors and Agricultural Implements</i> , Moscow, N12, 1983.
3.	V. V. Vantsevich, A. Kh. Lefarov "Method for Calculating Wheel Tractive Forces of AWD Tractor in Turn", <i>Journal of the National Academy of Sciences of Belarus</i> , Physics and Technical Science, N 2, 1983.
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