

CURRICULUM VITAE

Dr. Vladimir Chechik

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EDUCATION

Ph.D Mechanical Engineering, Specialization - Automobiles and Tractors,
Byelorussian National Technical University, Minsk, 1982

MSc Mechanical Engineering, Specialization – Internal Combustion
Engines, Byelorussian National Technical University, Minsk, 1970

ACADEMIC EXPERIENCE

1998- present Ort Braude College, Karmiel, Israel, Senior Lecturer at the
Mechanical Engineering Department

1992-1998 Ort Braude College, Teacher at the Mechanical Engineering
Department

1988-1990 Byelorussian National Technical University , Minsk, Associate
Professor at the Automobile Engineering Department

1982-1988 Byelorussian National Technical University, Senior Research
Assistant at the Automobile Design and Research Laboratory

1977-1982 Byelorussian National Technical University, Junior Research
Assistant at the Automobile Design and Research Laboratory

1974-1988 Byelorussian National Technical University , Lecturer at the
Automobile Engineering and at the Computer Engineering and
Programming Departments

PROFESSIONAL EXPERIENCE

1974-1977 Byelorussian National Technical University, Senior Engineer at the
Automobile Problems Research Laboratory

1970-1974 Byelorussian National Technical University, Engineer at the
Automobile Problems Research Laboratory

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TEACHING EXPERIENCE

1998- present	Ort Braude College, Karmiel, Israel, Senior Lecturer at the Mechanical Engineering Department
1991-1998	Ort Braude College, Teacher at the Mechanical Engineering Department
1988-1990	Byelorussian National Technical University , Minsk, Associate Professor at the Automobile Engineering Department
1974-1988	Byelorussian National Technical University, Lecturer at the Automobile Engineering and at the Computer Engineering and Programming Departments

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS - SAE

PROFESSIONAL ACTIVITIES

Research in truck transmissions loads; Damping torque vibrations; Development of transmission's load mode synthesis method based on load type analysis and automobile movement simulation under operational conditions; Research in the destructive effect of automobile proving ground routes; Forced automobile tests; Research in automobile parameters and road conditions effects on transmission durability, speed and fuel consumption; Probability analysis method for transmission components durability; Computer – aided system for real time processing of experimental loading processes; Computer – aided design system for automobile transmissions subsystems; Computer – aided methods for design, analysis and simulation of mechanical systems.

LIST OF PUBLICATIONS

Refereed Papers

Research in vibration properties of truck transmission. Coll. Papers "Automobile and Tractor Design", pp. 40-45, vol.8, 1976.

Automobile transmission loads resulting from irregularities in the internal combustion engine. Ibid, pp.59-64, v. 8, 1976.

Mode design methods for automobile transmission load and methods for analyzing transmission loads resulting from irregularities in the internal combustion engine. Deposited manuscript, 8 pp. Abstract journal "Automobilny i Gorodskoy Transport", No. 6,1976.

Method for determining transmission loading properties under starter and gear shift conditions. Manuscript (dep.), 9 pp. Ibid, No. 9, 1977.

Analysis method for automobile transmission loading mode. Coll. Papers "Automobile and Tractor Design", pp. 13-22, No.13, 1979.

Coefficient analysis methods for automobile transmission proving – ground stress testing. Manuscript (dep.), 12 pp. Abstract journal "Automobilny i Gorodskoy Transport", No. 5, 1979.

Method for the analysis of frequencies and forms of natural vibrations in a torsion dynamic systems. . Coll. Papers "Automobile and Tractor

Design”, pp. 3-13, No.14, 1980.

Research the effect of trailers on automobile transmission loading. . Coll. Papers “Automobile and Tractor Design”, pp. 52-58, No.15, 1980.

Determination of automobile transmission loading mode properties by means of simulation the model of “automobile – road – driver” dynamic system. Journal “Problems of Machinery”, pp. 42-45, No. 16, 1980.

Trailer - train transmission load research. “Automobile design”, pp. 5-13, 1981, No. 12.

Universal algorithm for calculation the low frequency dynamical load in an automobile transmission. Manuscript (dep.), 14 pp. Abstract journal “Automobilny i Gorodskoy Transport”, No. 1, 1983.

Analysis of trucks transmission under – load operation. “Automotive Industry”, pp. 19-21, No.2, 1984.

Truck’s operational mass effect on transmission under – load operation. . Coll. Papers “Automobile and Tractor Design”, pp. 6-10, No.19, 1984.

Destructive effect of testing ground routes on heavy truck’s gearbox and drive axles. Coll. Papers “Papers “Automobile and Tractor Design”, pp. 9-13, No.20, 1984.

Spectral composition truck transmission torque. Manuscript (dep.), 7pp. Bibliographical index “Deposited papers”, No. 6,1986.

Accumulation automobile transmission fatigue damage under starting and gear shift transition conditions. Manuscript (dep.), 9 pp.

Bibliographical index “Deposited papers”, No. 8,1986.

Computation of truck transmission loading under starting conditions of trailer train. Manuscript (dep.), 10 pp. Bibliographical index “Deposited papers”, No. 2,1987.

Statistical properties of truck and trailer train movements. Manuscript (dep.), 8 pp. Bibliographical index “Deposited papers”, No. 1,1988.

Engine power effect on truck transmission load conditions and operating speed. Coll. Papers “Automobile and Tractor Design and Operation”, pp.17-20, vol. 3, 1988.

**Books & Chapters
in Books**

The Material Testing Kit, Robotech Technology Inc., 1997.

Machine Elements Design 3, Harmonic Transmissions”, ORT Israel, 2001.

**Conference
Proceeding and
Abstract**

Analysis methods for the transmission parts load mode. Conference on research and elaboration for selection the optional parameters for automobiles, Reports, pp. 29-30, 1976.

Prediction for automobile transmission operating load. Conference on methods for increasing automobile quality and reliability, Reports, pp.25-26, 1980.

Computation system for automobile transmission under load operation. Conference on automobile dynamics and strength, Reports, 1984.

Automobile transmission analysis in computer-aided design system. Conference on automobile design and testing efficiency improvement, p.6, 1984.

Other Publications Clutch drive control device. Patent No.1199673, 1985.
Vehicle driving axle. Patent No.1426857, 1988.
Method for determining transmission components under-load conditions. Standard RD 37. 052. 152-88, 32pp.,1989.

Unpublished Professional Reports 14 Registered Research Reports on Automobile Design and Test Fields.