

Selected Articles before 2001

1) Journal Papers (refereed journals)

1. Yanovsky F.J. Experimental research of influencing of turbulence parameters on scattering of laser radiation. *Voprosy aviatsionnoy radiotekhniki (Problems of aviation radio engineering)*, Issue 7, Kiev, 1972, pp. 24-26. (in Russian)
2. Yanovsky F.J. Some results of the research of the variance of radar echo-signals from thunderstorm cells. *Voprosy aviatsionnoy radiotekhniki (Problems of aviation radio engineering)*, Issue 8, Kiev, 1973, pp. 33-35. (in Russian)
3. Yanovsky F.J. Analysis of horizontal profiles of the variance and mean of radar signal, reflected from clouds. *Issledovsniya po radiotekhnike (Researches on radio-engineering)*, Issue 6, Novosibirsk, 1973, pp.151-155. (in Russian)
4. Yanovsky F.J. Some reserves of the increasing effectiveness of detection of dangerous zones by airborne radars. *Issledovsniya po radiotekhnike (Researches on radio-engineering)*, Issue 6, Novosibirsk, 1973, pp.155-160. (in Russian)
5. Yanovsky F.J. Estimation of the variance of turbulent fluctuations of wind speed in thunderstorms on the measurements of correlation time of the signal of the non-coherent airborne radar. Deposited paper in the All-Union Research Institute of Scientific and Engineering Information (VINITI) No 7213-73DEP, 1973, 11 pp. (in Russian)
6. Yanovsky F.J. Estimation of probability that an airplane meets a turbulence zone when intersecting the cloud with a known reflectivity factor. The All-Union Research Institute of Scientific and Engineering Information (VINITI), Paper No 1278-74DEP, 1974, 26 pp. (in Russian)
7. Baranov I.M., Dovganchin B.A., Yanovsky F.J. Application of statistical echo-signal parameters of airborne radars for the detection of zones dangerous for flights. *Trudy OLAGA*, Issue 59, Leningrad, 1974, pp. 40-47 (in Russian)
8. Yanovsky F.J. The use of airborne radar for the estimation of turbulence parameters in clouds. *Radiotekhnika i Elektronika*, Vol. 19, No 8, 1974, pp. 1963-1965. (in Russian)
9. Baranov I.M., Bogatyr V.T., Dovganchin B.A., Sokolov P.M., Spirin A.I., Yanovsky F.J. Some results of the measuring echo-signal correlation interval with non-coherent radar. *Theory and Techniques of Radar, Navigation and Telecommunications in Civil Aviation*, Issue 1, Riga, 1974, pp. 65-67. (in Russian)
10. Yanovsky F.J. Probability of intensive turbulence at the airplane intersecting of the cloud with a known radar reflectivity. *Theory and Techniques of Radar, Navigation and Telecommunications in Civil Aviation*, Issue 1, Riga, 1974, pp. 71-73. (in Russian)
11. Yanovsky F.J. Radar reflectivity as an informative parameter in the detection of dangerous zones in clouds. *Trudy SibNIA, Novosibirsk*, 1975, 3 p. (in Russian)
12. Baranov I.M., Dovganchin B.A., Yanovsky F.J. Statistical parameters of radar signal reflected from thunderstorm clouds. *Trudy SibNIA, Novosibirsk*, 1975, 4 p. (in Russian)

13. F.I. Yanovskiy. The Use of Airborne Radars to Estimate the Parameters of Cloud Turbulence. *Radio Engineering & Electronic Physics*. Volume 19, August 1974, p. 132-134.
14. Yanovsky F.J. Influencing of the antenna pattern on the fluctuation spectrum of radar returns from clouds and precipitation at motion of the radar. *Theory and Techniques of Radar, Navigation and Telecommunications in Civil Aviation*, Issue 2, Riga, 1976, pp. 82-86. (in Russian)
15. Baranov I.M. Yanovsky F.J. The necessity to solve the problem of operating determination of optimal flight trajectory for composite meteorological conditions. *Computer engineering and simulation of complex aviation systems*, Issue. 2, Kiev, 1976, pp. 56-62 (in Russian)
16. Baranov I.M., Belkin V.V., Yanovsky F.J. Displaying of the radar information about zones in clouds dangerous for flights. *Radio electronic methods and means of recording the information used for ATC*, Kiev, "Znanie", 1976, pp. 13-14. (in Russian)
17. Baranov I.M., Belkin V.V., Bogatyr V.T., Mescherakov E.M., Sokolov P.M., Tereschuk A.A., Yanovsky F.J. The device for the gauging and mapping of allocation of the radar reflectivity on the section of a meteorological target. *The All-Union Research Institute of Scientific and Engineering Information (VINITI)*, Paper No 1819-76DEP, 1976, 23 pp. (in Russian)
18. Yanovsky F.J. The influence of a radar motion on the spectrum width of the envelope of the signal reflected from a cloud of scatterers. *Radiotekhnika i Elektronika*, Vol. 22, No 9, 1977, pp. 1972-1974. (in Russian)
19. Yanovsky F.J., Belkin V.V. Characteristics of the recognition of turbulent zones on radar reflectivity of clouds. *Theory and Techniques of Radar, Navigation and Telecommunications in Civil Aviation*, Issue 4, Riga, 1977, pp. 41-44. (in Russian)
20. F.I. Yanovskiy. The influence of the motion of radar on the spectrum width of the signal reflected from the cloud. *Radio Engineering & Electronic Physics*. Volume 22, September 1977.
21. Yanovsky F.J. Frequency Dispersion of Doppler signal, reflected from a cloud of the scatterers, at the motion of the source of radiation *Theory and Techniques of Radar, Navigation and Telecommunications in Civil Aviation*, Riga, 1981, pp. 3-7 (in Russian)
22. Yanovsky F.J. Comprehensive approach to the optimal localization of zones dangerous for navigating in the field of cloudiness. *Theory and Techniques of Radar, Navigation and Telecommunications in Civil Aviation*, Riga, 1982, pp. 55-60 (in Russian)
23. Yanovsky F.J., Fishman B.E. The theory of the forming of a radar signal of meteorological targets. *Dep Informsvyaz*, № 242, 1983, 15 pp. (in Russian)
24. Fishman B.E., Yanovsky F.J. To the theory of the forming of radar signal of weather objects. *Radiotekhnika*, № 11, 1983, pp. 56-57 (in Russian)
25. Yanovsky F.J., Fishman B.E. Mathematical model of processes of forming radar signals reflected from hydrometeors. *Theory and Techniques of Radar, Navigation and Telecommunications in Civil Aviation*, Riga, 1983, pp. 6-9 (in Russian)

26. Yanovsky F.J., Goloubchik V.Ya., Fishman B.E. Main operational requirements to the airborne systems of meteorological data display. Problems of optimal maintenance and repair of avionics equipment. Kiev, 1985, pp. 96-100 (in Russian)
27. Yanovsky F.J., Fishman B.E. The analysis of possibilities of airborne weather radars at localization of zones of exposure hazards. Theory and Techniques of Radar, Navigation and Telecommunications in Civil Aviation. Riga, 1985, pp. 32-36 (in Russian)
28. Yanovsky F.J., Fishman B.E. The tendencies of development of airborne radio engineering means of flight safety. The theory and practice of functional usage and maintenance of radio and electronic aviation systems Moscow, 1986, pp.80-84 (in Russian)
29. Yanovsky F.J. The concept of interior models in the problems of synthesis of the information and measuring systems. Statistical techniques of the information processing in radio electronic systems. Kiev, 1987, pp. 134-136 (in Russian)
30. Goloubchik V.Y., Fishman B.E., Yanovsky F.J. Automatic correction of the integration errors in electrometric amplifiers. Automation of electrometric measurements: Proceedings of the Tartu State University, Tartu, Estonia, 1988, pp. 10-12.
31. Goloubchik V.Y., Fishman B.E., Yanovsky F.J. Method of the adaptive integration of signals. Perfecting of radio electronic systems of civil aviation and processes of their engineering maintenance. Moscow, 1989, pp. 54-60 (in Russian)
32. Ignatov V.A., Kravchenko L.A., Yanovsky F.J. Synthesis of sounding signals coordinated with parameters of weather objects. Theory and Techniques of Radar, Navigation and Telecommunications in Civil Aviation. Riga, 1991, pp. 8-15 (in Russian)
33. Belyaev O.V., Yanovsky F.J. About the algorithms of generating random numbers of uniform distribution. Proceedings of the Kiev State University, named after T.G. Shevchenko, 1992, pp. 15-19 (in Ukrainian)
34. Vu Kouk Tkhin, Yanovsky F.J. Simulation of the algorithm of selecting radar signals reflected from hydrometeorological targets on the background of earth surface. Statistical processing techniques of signals in avionics. Kiev, 1993, pp. 40-47 (in Russian)
35. Kravchenko L.A., Savchenko V.V., Yanovsky F.J. Methods of the analysis of models "Input- Output" of radio electronic devices. Progressive methods of maintenance and repair of avionics. Kiev, 1994, pp. 91-99 (in Russian)
36. Prokopenko I.G., Yanovsky F.J. Complex algorithm of the detecting dangerous zones of turbulence . Signal processing techniques in avionics, Kiev, 1994, pp. 17-24 (in Russian)
37. Yanovsky F.J., Savchenko V.V., Kravchenko L.A., Dzubenko V.P., Sinugin R.B. Software and hardware of the monitoring of functioning airborne weather radars. Resources-economy techniques of the maintenance and repair of the avionics equipment. Kiev, 1992. pp.43-51 (in Russian)
38. Yanovsky F.J., Kravchenko L.A., Savchenko V.V. Complex of models of functioning the perspective weather radars. Problems of perfecting radio electronic complexes and systems of providing flight safety. Kiev, 1993, p.54-61 (in Russian)

39. Yanovsky F.J., Goloubchik V.Y., Fishman B.E. The method to increase an operationability of monitoring of a group of diagnostic parameters. Progressive methods of maintenance and repair of avionics. Kiev, 1994, pp. 61-66 (in Russian)
40. Yanovsky F.J., Panits V.A. Application of the antenna with controlled polarization for detection of zones of hailstones and icing. Izvestia Vysshikh Uchebnykh Zavedeniy. Radioelektronika, Vol. 39, No 9-10, Sep. 1996, pp. 32-42 (in Russian)
41. Belyaevsky L.S., Belkin V.V., Savchenko N.M., Yanovsky F.J. Radio-Engineering methods for the estimating of the location and state of objects in different physical mediums. Simulation of radio-electronic systems and complexes of flight support. Kiev, 1996, p. 146-151.
42. Yanovskij, F.I., Panits, V.A. Application of controlled polarization antennas for the detection of hail and icing zones. Proceedings of the Institutes of Higher Education: Radio & Electronics. Vol. 39 (9-10), Oct. 1996, pp. 32-42 (in Russian)
43. Yanovsky F. Methods and means of remote definition of clouds' electrical structure. Physics and Chemistry of the Earth, Vol. 22, No. 3-4, pp. 241-245, 1997.
44. Yanovsky F.J., Korban V.K., Khraisat Y.S. Polarization characteristics of radar signals, reflected from meteorological objects. Problems of Avionics, Kiev, 1997, pp. 220-229 (in Russian)
45. Yanovsky F.J. The use of antenna with controlled polarization to detect areas of hail and icing. Radio-electronics and Communications System, no 39, 1997, pp. 20-25.
46. Khraisat Y.S.K., Yanovsky F.J. Relationship between the correlation interval of radar signal and turbulence intensity in single radar volume. Problems of information and control, Issue 3, Kiev, 1998, pp. 296-299 (in Ukrainian)
47. Yanovsky F.J. Simulation of the processes of interaction between radar signal and turbulized meteorological object. Visnyk KMUTSA (Bulletin of the Kiev International University of Civil Aviation), Issue 1, 1998, pp. 125-136. (in Ukrainian)
48. Dzubenko V.P., Yanovsky F.J. Informative parameters of radar signals that are suitable for the estimating of dangerous turbulence by airborne weather and navigational radars. Problems of maintenance and reliability of aeronautical equipment. Kiev, 1998, pp. 156-160 (in Russian)
49. Prokopenko I.G., Yanovsky F.J., Ligthart L.P., Prokopenko K.I. Synthesis and analysis of invariant algorithms of the signal processing for turbulence detection by weather radar. Visnyk KMUTSA (Bulletin of the Kiev International University of Civil Aviation), Issue 2, 1999, pp. 121-129 (in Ukrainian)
50. Korablev A.V., Yanovsky F.J., Error analysis of HH-method of range measurement up to the source of a storm discharge, Visnyk KMUTSA (Bulletin of the Kiev International University of Civil Aviation), Issue 3-4, 2000, pp. 147-154 (in Russian)

2) Conference Papers

1. Baranov I.M., Bogatyr V.T., Dovganchin B.A., Yanovsky F.J. Research of statistical characteristics of signals reflected from thunderstorms using airborne radar. Proceedings of the Ukrainian Conference "*Basic directions in the development of radio electronics, computer engineering and communications*", v. 1, Kiev, UkrNIINTI (Ukrainian Research Institute of Scientific and Engineering Information), 1973, pp. 47-48.
2. Baranov I.M., Bogatyr V.T., Dovganchin B.A., Yanovsky F.J. Experimental researches of frequency spectra of fluctuations of returns from clouds with airborne radar. *Proceedings of the All-Union Conference on some problems of the flight safety in civil aviation*. Riga, Latvia, 1975, pp. 66-67.
3. Yanovsky F.J. Research of returns of the meteorological targets for a solution of the problem of localization of dangerous turbulence by aircraft radars. *Proceedings of the 1st conference of young scientists*, Kiev, 1978, pp. 54-56. Deposited in UkrNIINTI 1.03.1979 r. № 1368.
4. Yanovsky F.J., Belkin V.V. Methods and means of signal processing and information display in airborne radar systems of civil aviation. *Proceeding of the 38 All-Union scientific session dedicated to the Day of Radio*. Moscow: "Radio i svyaz", 1983, pp. 107-108.
5. Fishman B.E., Yanovsky F.J. Information approach to the comparative analysis of the composite informational-measuring systems. *Proceedings of the 39 All-Union scientific session dedicated to the Day of Radio*, Moscow: "Radio i svyaz", 1984, pp. 20-21.
6. Fishman B.E., Yanovsky F.J. Localization of zones of increased lightning and turbulence hazard. *Proceedings of the 2 All-Union Symposium "Atmosphere Electricity"*, Leningrad, October 26-28, 1982. Leningrad, GGO, 1984, pp. 141-142.
7. Fishman B.E., Yanovsky F.J. Optimal techniques of the processing multidimensional signals in the informational - measuring systems. *Proceedings of the All-Union Conference "Statistical methods in the theory of transmissions and conversions of information signals"*, Kiev, 1985, pp. 64-65.
8. Yanovsky F.J., Fishman B.E. The main tendencies of the development of avionics equipment for the flight safety support. *Proceedings of the 40 All-Union scientific session dedicated to the Day of Radio*, Part 1. - Moscow, "Radio i Svyaz", 1985, pp. 60-62.
9. Fishman B.E., Yanovsky F.J. The use of the concept of interior models in the tasks of synthesis of radio engineering systems. *Proceedings of the 42 All-Union Scientific Session Dedicated to the Day of Radio*, Part 2. - Moscow: "Radio i svyaz", 1987, pp. 27-28.
10. Ignatov V.A., Fishman B.E., Yanovsky F.J. Accuracy estimation of the inverse problem solution of localization of meteorological phenomena dangerous for flights. *Proceedings of the 5 All-Union Symposium "Methods of the theory of identification in the problems of measuring technology and metrology"*. - Novosibirsk, 1989, pp. 179-180.
11. Kravchenko L.A., Yanovsky F.J. Algorithms of parametric identification of functional units of avionics. *Proceedings of the 5 All-Union Symposium "Methods of the theory of identification in the problems of measuring technology and metrology"*. - Novosibirsk, 1989, pp. 181-182.

12. Yanovsky F.J., Savchenko V.V. Simulation models of radar signals reflected from turbulized zones in clouds and precipitation. *Proceedings of the All-Union Conference "Imitative experiments with models of composite systems - Management systems and methods of their simulation"*. - Kaliningrad, 1989, pp. 41-42.
13. Yanovsky F.J. The concept of simulation of a measuring and information system as a part of the flight control system under the hard weather conditions. *Proceedings of the All-Union Conference on Aviation Meteorology*. - Moscow, Hydrometeoizdat, 1990, pp. 43-44.
14. Yanovsky F.J. Active and passive means for the localization of zones of increased electric activity in atmosphere from the aircraft "4 All-Union Symposium on Atmosphere Electricity". - Nalchik, Kabardino-Balkaria, Russian Federation, 1990, pp. 24-25.
15. Yanovsky F.J., Fishman B.E. The analysis of possibilities to increase the information ability of observations upon atmosphere electricity. *Proceedings of the 4 All-Union Symposium on Atmosphere Electricity*. - Nalchik, Kabardino-Balkaria, Russian Federation, 1990, pp. 23-24.
16. Yanovsky F.J. The concept of the unified network for the observation on atmospheric electricity and dangerous meteorological phenomena. *The report at the Assembly "Passive radiolocation of thunderstorms" of the Scientific Council of the Academy of Sciences of the USSR on the problem "Statistical Radiophysics"*, Riga, 1990. - Preprint AN USSR, 10 p.
17. Yanovsky F.J. The concept of the complex localization of zones of dangerous meteorological phenomena from the aircraft. *Proceedings of the All-Union Conference "Methods and means of the remote sensing of atmosphere to provide the aviation"*. - Kiev, 1991, pp. 5-8.
18. Shupiatsky A.B., Yanovsky F.J. Use of polarization and statistical characteristics of radar signals in detecting areas in clouds dangerous for aircraft flight. *Proceedings of the 4 International Conference on Aviation Meteorological Systems*. Paris, France, June 1991, pp. 347-352.
19. Ignatov V.A., Kravchenko L.A., Savchenko V.V., Yanovsky F.J. The expert system with the simulation of processes of localization of zones of dangerous turbulence by airborne weather radars. *Proceedings of the All-Union Conference "Methods and means of the remote sensing of atmosphere to provide the aviation"*. - Kiev, 1991, pp. 3-4.
20. Yanovsky F.J. Localization of zones of hail hazard with the help of airborne polarization radars. *Proceedings of the International Conference "Statistical methods in the theory of transmissions and conversions of information signals"*. - Kiev, 1991, pp. 103-104.
21. Yanovsky F.J. The concept of the system for complex localization of zones of turbulent, lightning and hail hazard by the airborne facilities. *Proceedings of the 2nd International Conference "Problems of perfecting of radio electronic complexes and systems of providing flights (Aeronavigation-94)"*. - Kiev, 1992, pp. 21-22.
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23. Yanovsky F.J. The experience of the sounding of thunderstorm and hail clouds by the dual-polarization airborne radar. *Proceedings of the 3rd International Conference "Problems of perfecting of radio electronic complexes and systems of providing flights (Aeronavigation-94)"*, Kiev, 1994, pp. 38-39.
24. Felix J. Yanovsky, Use of signal polarization properties - the way to improvement of weather radar parameters. *Proceedings of the Third International Workshop on Radar Polarimetry*, March 21-23, 1995, Nantes, France, pp. 578-589.
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27. Felix J. Yanovsky and A.B.Shupiatsky, Detection of hail areas with airborne weather radar. *Proceedings of the International Geoscience and Remote Sensing Symposium*, Volume III, Florence, Italy, 1995, pp. 1670-1672.
28. Igor G. Prockopenko and Felix J. Yanovsky, New algorithms for radar detection of the turbulence in clouds and measurement of its intensity. *Proceedings of the International Geoscience and Remote Sensing Symposium*, Volume I, Florence, Italy, 1995, pp. 247-249.
29. Igor G. Prockopenko and Felix J. Yanovsky, Algorithms of atmospheric turbulence detection with airborne weather radar. *IEEE Antennas and Propagation Society International Symposium Digest*, June 1995, Newport-Beach, CA, USA, Volume I, pp. 294-297.
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32. Felix J. Yanovsky, The Development of Methods and Means of Atmospheric EM Activity Detection, Location and Evaluation. *Proceedings of the International Symposium on Future Telecommunication and the Electromagnetic Environment*. Eilat, Israel, 1995, pp.216-221.
33. Belkin V.V., Belyaevsky L.S., Khraisat Y.S.H., Yanovsky F.J. The automated simulation system of weather radar operation. *Proceedings of the International Conference "Problems of perfecting of systems of aeronautical service and controls of mobile objects (Aeronavigation-96)"*, September 24-26, 1996, Kiev, 1996, c. 43-44.
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35. Yanovsky F.J. Simulation study of 10 GHz radar backscattering from clouds and solution of the inverse problem of atmospheric turbulence measurements. *Proceedings of the Conference "Computation in Electromagnetics"*, IEE No. 420, pp. 188-193, 1996.
36. F.J. Yanovsky, L.P. Ligthart, C.M.H. Unal, V. H. Korban. Radar study of polarization structure of precipitation. *Proceedings of the 27 European Microwave Conference*, Jerusalem, Israel, 1997, pp. 157-162.
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38. Yanovsky F.J., Ligthart L.P. Microwave Remote Sensing of Dangerous Meteorological Phenomena (**invited**). *XIII International Conference on Microwave, Radar and Wireless Communications MIKON-2000*. Vol. 3: Invited Papers. Wroclaw, Poland, 2000. - pp. 70-82.
39. Prokopenko I.G., Yanovsky F.J. Radar measuring of turbulence intensity in clouds and precipitation. *XIII International Conference on Microwave, Radar and Wireless Communications MIKON-2000*. Conference Proceedings, Vol. 1. Wroclaw, Poland, 2000. - pp. 231-234.
40. F.J. Yanovsky, I.G. Prokopenko, L.P. Ligthart. Development and modeling of radar turbulence detection algorithms in clouds and precipitation. *Proceedings of the Millennium Conference on Antennas & Propagation AP2000*, ESA SP-444 Proceedings 9-14 April 2000, Davos, Switzerland. - 4 pp. Published by European Space Agency Publication Division, ESTEC, 2000 AG Noordwijk.
41. Felix J. Yanovsky, Alexander V. Korablev. Use of some propagation singularities for passive determination of the distance up to lightning. *Proceedings of the Millennium Conference on Antennas & Propagation AP2000*, ESA SP-444 Proceedings 9-14 April 2000, Davos, Switzerland. - 4 pp. Published by European Space Agency Publication Division, ESTEC, 2000 AG Noordwijk.
42. Yanovsky F.J. Microwave remote sensing in avionics (**invited**). *XX International Travelling Summer School on Microwaves and Lightwaves (ITSS-2000)*, Institute of Radio- Engineering & Electronics, Russian Academy of Sciences, Moscow, July 11-16, 2000, 16 pp.
43. Yanovsky, F., I. Prokopenko and L. Ligthart, New Adaptive Algorithm for Radar Turbulence Detection in Clouds and Precipitation. *IEEE 2000 International Geoscience and Remote Sensing Symposium*. Hilton Hawaiian Village Honolulu, Hawaii, July 24-28, 2000, Volume VII, pp. 3145-3147.
44. Yanovsky, F.J., and A. Korablev, Airborne Sensor for Passive Determination of the Distance up to Lightning Source. *IEEE 2000 International Geoscience and Remote Sensing Symposium*. Hilton Hawaiian Village Honolulu, Hawaii, 24-28 July 2000, Volume VII, pp. 3172-3174.
45. Yanovsky, F.J., H.W.J. Russchenberg, L.P. Ligthart and V.S. Fomichev, Microwave Doppler-Polarimetric Technique for Study of Turbulence in Precipitation. *IEEE 2000 International Geoscience and Remote Sensing Symposium*. Hilton Hawaiian Village Honolulu, Hawaii, 24-28 July 2000, Volume V, pp. 2296-2298.

46. A.V. Korablev, F.J. Yanovski, L.P. Ligthart, "New Method for Passive Determination the Distance up to Lightning Source", *Proceedings of the 2000 International Symposium on Antennas and Propagation (ISAP2000)*, vol 2, pp. 521-525, ISBN 4-88552-169-6 C3055, Fukuoka, Japan, 2000.
47. F.J. Yanovski, L.P. Ligthart, H.W.J. Russchenberg, V.S. Fomichov, "Comparison of Modeled and Measured Doppler-Polarimetric Parameters of Radar Signal Reflected from Rain", (**invited**), *Proceedings of the 2000 International Symposium on Antennas and Propagation (ISAP2000)*, vol 3, pp. 951-955, ISBN 4-88552-171-8 C3055, Fukuoka, Japan, 2000.
48. Yanovsky F.J., H.W.J. Russchenberg, L.P. Ligthart. Signal processing in the Doppler-polarimetric radar at the research of turbulence in precipitation. Proceedings of the 6th International Conference "Theory and technique of the transmitting, receiving and processing of information ", September 17-19, 2000, 3 pp. - Tuapse, Russian Federation.