

List of the Main Publications of Professor Anatoly Kilbas

Books

- B1. Samko, S.G.; Kilbas, A.A.; Marichev, O.I. Integraly i proizvodnye drobnogo poryadka i nekotorye ikh prilozheniya. (Russian) [Integrals and derivatives of fractional order and some of their applications] Edited and with a preface by S.M. Nikol'skii. "Nauka i Tekhnika", Minsk, 1987. 688 pp. **MR**(Mathematical Reviews)**89a:26009**; **Zbl.** (Zentralblatt für Mathematik)**617.26004**; **RZMAT** (Referativnyi Zhurnal Matematika, Russian)**1988 3b1K**; **CMP**(Current Mathematical Publications)**1988, 4:26**.
- B2. Samko, Stefan G.; Kilbas, Anatoly A.; Marichev, Oleg I. Fractional integrals and derivatives. Theory and applications. Edited and with a foreword by S.M. Nikol'skii. *Gordon and Breach Science Publishers, Yveron.*, 1993. XXXVI+976 pp. **MR 96d:26012**; **Zbl.818.26003**; **CMP 1995 17:26**.
- B3. Bonilla, B.; Kilbas, A.A.; Trujillo, J.J. Calculo Fraccionario y Ecuaciones Diferenciales Fraccionarias. (Spanish) [Fractional calculus and fractional differential equations]. *Uned*, Madrid. 2003. 206 pp.
- B4. Kilbas, Anatoly A.; Saigo Megumi. H-transforms. Theory and applications. Analytic Methods and Special Functions, 9. *Chapman and Hall/CRC*, Boca Raton, FL, 2004. xii+389 pp. **MR 2004m:44001**; **Zbl.1056.44001**; **CMP 2004, 9:44**.

- B5. Kilbas, A.A. Integral equations. (Russian) *Universitetskoe*, Minsk, 2005. 143 pp.
- B6. Kilbas, A.A.; Srivastava, H.M.; Trujillo, J.J. Theory and applications of fractional differential equations. North-Holland Mathematics Studies 204. *Elsevier*, Amsterdam, 2006. 540 pp. **MR 2007a:34002, Zbl.1092.45003; CMP 2006, 12:34.**
- B7. Marichev, O.I.; Kilbas, A.A.; Repin, O.A. Boundary Value Problems for Partial Differential Equations with Discontinuous Coefficients. (Russian) Samara Economical University, Samara, 2008. 276 pp.

Books' Editor

- 1. Kraevye zadachi, spetsial'nye funktsii i drobnoe ischislenie. (Russian) [Boundary value problems, special functions and fractonal calculus] Proceedings of the International Conference dedicated to the memory of Academician F.D. Gakhov held in Minsk, February 16-20, 1996. Edited by A.A.Kilbas. *Belorusskii Gosudarstvennyi Universitet, Minsk*, 1996. xii+406 pp. **MR 97g:00017; RZMAT 1997 11b33; CMP 1997, 6:00.**
- 2. Analytic Methods of Analysis and Differential Equations (AMADE 99). Edited by A.A.Kilbas and S.V.Rogosin. *National Academy of Sciences of Belarus, Proceedings of Institute of Mathematics*, Vol. 5. Minsk, 2000. 150 pp.
- 3. Analytic Methods of Analysis and Differential Equations (AMADE 99). Edited by A.A.Kilbas and S.V.Rogosin. *National Academy of Sciences of Belarus, Proceedings of Institute of Mathematics*, Vol. 6. Minsk, 2000. 164 pp.
- 4. Analytic Methods of Analysis and Differential Equations (AMADE-2001). Edited by A.A.Kilbas and S.V.Rogosin. *National Academy of Sciences of Belarus, Proceedings of Institute of Mathematics*, Vol. 9. Minsk, 2001.
- 5. Analytic Methods of Analysis and Differential Equations (AMADE-2001). Edited by A.A.Kilbas and S.V.Rogosin. *National Academy of Sciences of Belarus, Proceedings of Institute of Mathematics*, Vol. 10. Minsk, 2001. 172 pp.

6. Trudy Instituta Matematiki, Minsk. Analytic Methods of Analysis and Differential Equations. Vol. 12, no. 1, 2004. Edited by A.A.Kilbas and S.V.Rogosin. 188 pp.
7. Trudy Instituta Matematiki, Minsk. Analytic Methods of Analysis and Differential Equations. Vol. 12, no. 2, 2004. Edited by A.A.Kilbas and S.V.Rogosin. 193 pp.
8. Analytic Methods of Analysis and Differential Equations: AMADE-2003. Edited by A.A.Kilbas and S.V.Rogosin. Cambridge Scientific Publisher, 2006. 274 pp. **Zbl.1123.34003**.
9. Analytic Methods of Analysis and Differential Equations (AMADE-2006). Proceedings of 4th International Conference devoted to centenary of academician F.D.Gakhov, 13-19th of September 2006, Minsk, Belarus. Edited by A.A.Kilbas and S.V.Rogosin. Vol. 1. Mathematical Analysis. *Institute of Mathematics of NAN Belarusi*, Minsk, 2006. 160 pp.
10. Analytic Methods of Analysis and Differential Equations (AMADE-2006). Proceedings of 4th International Conference devoted to centenary of academician F.D.Gakhov, 13-19th of September 2006, Minsk, Belarus. Edited by A.A.Kilbas and S.V.Rogosin. Vol. 2. Mathematical Analysis and Applications. *of Mathematics of NAN Belarusi*, Minsk, 2006. 158 pp.
11. Analytic Methods of Analysis and Differential Equations (AMADE-2006). Proceedings of 4th International Conference devoted to centenary of academician F.D.Gakhov, 13-19th of September 2006, Minsk, Belarus. Edited by A.A.Kilbas and S.V.Rogosin. Vol. 3. Differential Equations. *Institute of Mathematics of NAN Belarusi*, Minsk, 2006. 170 pp.

Papers

1. Kilbas, A.A. Solution in closed form of a complete singular integral equations with analytic kernel in the exceptional case. (Russian) *Vesci Akad. Nauk BSSR Ser. Fiz.-Mat. Navuk*, **1974**, no. 1, 129-130. **Zbl.282.45004; RZMAT 1974 3b401**.
2. Kilbas, A.A. Solution in closed form of a system of complete singular integral equations with analytic kernels. (Russian) *Dokl. Akad. Nauk*

- BSSR* **18** (1974), no. 1, 9-12, 90. **MR 49#1038; Zbl.302.45004; RZMAT 1974 5b459.**
3. Kilbas, A.A. Power-logarithmic integrals in spaces of Hölder functions. (Russian) *Vescī Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* **1975**, no. 1, 37-43, 140. **MR 57#13396; Zbl.301.44009; RZMAT 1975 6b74; CMP 1975, 13:(44)46E.**
 4. Kilbas, A.A. Solution in closed form of certain integral equations with polar and logarithmic kernels. (Russian) *Vescī Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* **1975**, no. 3, 18-26, 139. **MR 51#13604; Zbl.311.45003; RZMAT 1975 10b416; CMP 1975, 23:45.**
 5. Kilbas, A.A. Application of a certain integral representation in studying the Noethericity of integral operators with logarithmic kernels. (Russian) *Vescī Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* **1976**, no. 2, 24-33, 140. **MR 54#5910; Zbl.325.47035; RZMAT 1976 9b576; CMP 1976, 25:(45)47G.**
 6. Kilbas, A.A. The Noethericity of integral operators with logarithmic kernels. (Russian) *Vescī Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* **1976**, no. 4, 35-39, 140. **MR 56#9327; Zbl.354.47021; RZMAT 1977 1b411; CMP 1977, 14:(45)47G.**
 7. Kilbas, A.A. Generalized Hölder spaces, and an operator of convolution type with a special Volterra function. (Russian) *Vescī Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* **1976**, no. 5, 44-52, 140. **MR 58#12493; Zbl.354.47020; RZMAT 1977 2b776; CMP 1977, 12:47G.**
 8. Kilbas, A.A.; Samko, S.G. Integral operators with homogeneous kernels in Hölder H^ω -spaces. (Russian) *Dokl. Akad. Nauk BSSR* **21** (1977), no. 1, 5-8, 91. **MR 56#16459; Zbl.349.47034; RZMAT 1977 6b621; CMP 1977, 23:47G.**
 9. Kilbas, A.A. Differentiation of singular integrals, and computation of definite integrals. (Russian) *Vestnik Beloruss. Gos. Univ. Ser.1* **1977**, no. 1, 78-80, 95. **MR 56#16280; RZMAT 1977 7b1167; CMP 1977, 18:44.**
 10. Kilbas, A.A. Integral equations of the first kind with logarithmic kernels of arbitrary order. (Russian) *Dokl. Akad. Nauk BSSR* **21** (1977),

- no. 12*, 1078-1081, 1148. **MR 58#2088; Zbl.376.45006; RZMAT 1978 5b302; CMP 1978, 14:45.**
11. Kilbas, A.A.; Samko, S.G. The smoothness of functions that are representable by logarithmic integrals. (Russian) *Vestnik Beloruss. Gos. Univ. Ser.1* **1978**, *no. 1*, 73-75. **MR 80g:45006; RZMAT 1978 7b196; CMP 1978, 22:45.**
 12. Kilbas, A.A. Operators of potential type with power-logarithmic kernels in Hölder spaces with weight. (Russian. English summary) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* **1978**, *no. 2*, 29-37, 139. **MR 58#7218; Zbl.401.47022; RZMAT 1978 8b611; CMP 1978, 18:(45)47G.**
 13. Kilbas, A.A. Integral operators with logarithmic kernels on the totality of segments of the real axis. (Russian) *Vestnik Beloruss. Gos. Univ. Ser.1* **1978**, *no. 2*, 3-6, 93. **MR 80d:45006; RZMAT 1978 10b802; CMP 1979, 5:45.**
 14. Kilbas, A.A. The city wide seminar in boundary value problems and singular integral equations at Byelorussian State University. (Russian) *Uspechi Matem. Nauk* **33** (1978), *no. 4(202)*, 239-240. **RZMAT 1979 1b324.**
 15. Kilbas, A.A. Operators of potential-type with logarithmic kernels of arbitrary nonnegative orders. (Russian) *Izv. Vyssh. Uchebn. Zaved. Mat.* **1979**, *no. 1*, 28-37; *translation in Soviet. Math.(Iz. VUZ)* **23** (1979), *no. 1*, 22-29. **MR 81e:45008; Zbl.437.47035 and 449.47056; RZMAT 1979 8b444; CMP 1979, 26:45.**
 16. Kilbas, A.A. Singular integrals with polar-logarithmic kernels in spaces of Hölder functions. (Russian. English summary) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* **1979**, *no. 6*, 48-52, 141. **MR 83a:47055; Zbl.437.45029; RZMAT 1980 5b151; CMP 1980, 16:44.**
 17. Kilbas, A.A.; Rogovtsov, N.N. An integral equation for the source function. (Russian. English summary) *Dokl. Akad. Nauk BSSR* **26** (1982), *no. 3*, 197-200, 283. **MR 83g:45007; Zbl.481.45006; RZMAT 1982 7b476; CMP 1982, 16:45.**
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- BSSR* **26** (1982), no. 10, 879-881, 956. **MR 84j:45024; Zbl.539.45003; RZMAT 1983 2b520; CMP 1983, 4:45.**
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 20. Andreev, A.A.; Kilbas, A.A. Solutions of an inhomogeneous hypergeometric equation and calculation of integrals. (Russian. English summary) *Dokl. Akad. Nauk BSSR* **27** (1983), no. 6, 493-496. **MR 84i:33002; Zbl.524.33008; RZMAT 1983 10b9; CMP 1983, 23:33.**
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 22. Kilbas, A.A. Integral equations with logarithmic kernels. (Russian). *Complex Analysis and Applications '81 (Varna, 1981)*, 537-548, *Publ. House Bulgar. Acad. Sci., Sofia*, 1984. **Zbl.582.45010; CMP 1987, 10:45.**
 23. Andreev, A.A.; Kilbas, A.A. Some associated hypergeometric functions. (Russian) *Izv. Vyssh. Uchebn. Zaved. Mat.* **1984**, no. 12, 3-12. 76; translation in *Soviet. Math.(Iz. VUZ)* **28** (1984), no.12, 1-11. **MR 86j:33001; Zbl.563.33002 and 568.33001; RZMAT 1985 5b29; CMP 1985, 10:33.**
 24. Zabello, I.N.; Kilbas, A.A. Solvability of a system of integral equations with logarithmic kernels and internal coefficients. (Russian) *Vestnik Beloruss. Gos. Univ. Ser.1* **1985**, no. 3, 54-57, 80. **MR 86m:45014; Zbl.597.45007; RZMAT 1986 2b625; CMP 1986, 6:45.**
 25. Zabello, I.N.; Kilbas, A.A. Bounded solutions of a system of singular integral equations (Russian). *Dokl. Akad. Nauk SSSR* **284** (1985), no. 2, 288-291; translation in *Soviet Mat. Dokl.* **32**(1985), no.2, 422-425. **MR 87b:45010; Zbl.596.45007; RZMAT 1986 2b626; CMP 1986, 2:45.**

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27. Kilbas, A.A. Integral equations of the first kind with logarithmic kernels. (Russian) *Proceedings of a commemorative seminar on boundary value problems (Russian) (Minsk, 1981)*, 57-64. "Universitetskoe", Minsk, 1985. **Zbl.623.45021; RZMAT 1986 2b608; CMP 1987, 7:45.**
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29. Kilbas, A.A.; Vasilets, S.I. On the solution of a multidimensional integral equation with a logarithmic kernel with radial density. (Russian) *Differentsial'nye Uravneniya* **23** (1987), no. 2, 321-328, 365; *translation in Differential Equations* **23** (1987), no. 2, 237-242. **MR 88i:45001; Zbl.618.45003 and 635.45008; RZMAT 1987 7b479; CMP 1987, 12:45.**
30. Kilbas, A.A. Asymptotic expansions of fractional integrals and of the solutions of the Euler-Poisson-Darboux equation. (Russian) *Differentsial'nye Uravneniya* **24** (1988), no. 10, 1764-1778, 1837-1838; *translation in Differential Equations* **24**(1988), no. 10, 1174-1185. **MR 89k:35048; Zbl.683.35070; RZMAT 1989 2b558; CMP 1989, 5:35C.**
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33. Grin'ko, A.P.; Kilbas, A.A. Generalized fractional integrals in weighted Hölder spaces. (Russian. English summary) *Dokl. Akad. Nauk BSSR* **34** (1990), no. 6, 493-496, 570. **MR 92a:26004; Zbl.732.47015; RZMAT 1991 1b2; CMP 1991, 1:33.**
34. Adamchik, V.S.; Kilbas, A.A. Asymptotics of the Laplace convolution of two Bessel functions. (Russian) *Izv. Vyssh. Uchebn. Zaved. Mat.* **1991**, no. 4, 74-77; translation in *Soviet. Math. (Iz. VUZ)* **35** (1991), no. 4, 73-76. **MR 92j:33009; Zbl.739.33002; RZMAT 1992 3b20; CMP 1992, 4:33.**
35. Grin'ko, A.P.; Kilbas, A.A. On compositions of generalized fractional integrals. *J. Math. Res. Exposition* **11** (1991), no. 2, 165-171. **MR 92m:26009; Zbl.754.44002; CMP 1991, 12:26.**
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37. Kilbas, A.A.; Saigo, M.; Zhuk, V.A. On the composition of operators of generalized fractional integration with a differential operator in axisymmetric potential theory. (Russian) *Differentsial'nye Uravneniya* **27** (1991), no. 9, 1640-1642, 1655. **MR 92j:31004; Zbl.774.33002; RZMAT 1992 4b7; CMP 1992, 5:31.**
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39. Vasilets, S.I.; Kilbas, A.A. On the solution of integral equations of the first kind with weak singularities in an n -dimensional spherical layer. (Russian) *Dokl. Akad. Nauk SSSR* **321** (1991), no. 5, 880-884; translation in *Soviet Math. Dokl.* **44** (1992), no. 3, 804-808. **MR 93b:45006; Zbl.848.45001; RZMAT 1992 7b497; CMP 1992, 10:45.**
40. Kilbas, Anatoly A.; Saigo, Megumi; Shlapakov, Sergei A. Integral transform with Fox's H -function in spaces of summable functions. *Integral Transforms Spec. Funct.* **1** (1993), no. 2, 87-103. **MR**

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 43. Kilbas, A.A.; Bubakar, Silla. Two-weight estimates for integral operators. (Russian. English summary) *Dokl. Akad. Nauk Belarusi* **37** (1993), no. 3, 22-25, 122-123. **MR 94k:47045; Zbl.819.47064; RZMAT 1994 4b735; CMP 1994, 5:47G.**
 44. Kilbas, A.A.; Shlapakov, S.A. On a Bessel type integral transformation and its compositions with integral and differential operators. (Russian. English summary) *Dokl. Akad. Nauk Belarusi* **37** (1993), no. 4, 10-14, 121. **MR 95a:44009; Zbl.791.44005; RZMAT 1994 6b670; CMP 1994, 9:44.**
 45. Kilbas, A.A.; Shlapakov, S.A. On an integral transformation with the Fox H -function. (Russian. English summary) *Dokl. Akad. Nauk Belarusi* **38** (1994), no. 1, 12-15, 123. **MR 95h:44015; Zbl.803.44004; RZMAT 1995 1b5; CMP 1993, 17:44.**
 46. Kilbas, A.A.; Shlapakov, S.A. On the composition of a Bessel-type integral operator with operators of fractional integro-differentiation and the solution of differential equations. (Russian) *Differentsial'nye Uravneniya* **30** (1994), no. 2, 256-268, 364-365; translation in *Differential Equations* **30** (1994), no. 2, 235-246. **MR 96a:45012; Zbl.824.47025; RZMAT 1998 3b13; CMP 1995, 3:45.**
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