

List of publications of Vladimir N. Dubinin

1. A certain symmetrization method, *Kuban. Gos. Univ. Nauchn. Trudy* No. 180 (1974), 50 – 64. MR 53 5852.
2. Some symmetrization transformations and their applications to covering theorems, *Kuban. Gos. Univ. Nauchn. Trudy* № 217 (1976), 17 – 25.
3. On Hayman's conjecture, *Kuban Gos. Univ. Nauchn. Trudy* № 217 (1976), 26 – 34.
4. Some symmetrization transformations and covering theorems in the geometric theory of functions of a complex variable, Candidate's dissertation, Krasnodar 1977.
5. Some applications of a linear averaging transformation in covering theorems, *Kuban. Gos. Univ.*, Krasnodar 1977. Deposited at VINITI No. 770 – 77.
6. The product of inner radii of "partially non-overlapping" domains, in: *Voprosy metricheskoi teorii otobrazhenii i ee primenenie* (Questions in the theory of mappings and its applications), *Naukova Dumka*, Kiev 1978, pp. 24 – 31. MR 81e:30029.
7. Some covering theorems in the theory of analytic functions, in: *Differentsial'nye uravneniya i funktsional'nyi analiz* (Differential equations and functional analysis), *Far-Eastern Science Centre, Acad. Sci. USSR*, Vladivostok 1980, pp. 98 – 109.
8. Coverings of vertical segments under a conformal mapping, *Mat. Zametki* 28:1 (1980), 25 – 32. MR 81m:30008.
= *Math. Notes* 28 (1980), 476 – 479.
9. On the change of harmonic measure under symmetrization, *Mat. Sb.* 124 (1984), 272 – 279. MR 85j:30049.
= *Math. USSR-Sb.* 52 (1985), 267 – 273.
10. Transformation of functions and Dirichlet's principle, *Mat. Zametki* 38 (1985), 49 – 55. MR 87j:31005.
= *Math. Notes* 38 (1985), 559 – 542.
11. The symmetrization method in problems on non-overlapping domains, *Mat. Sb.* 128 (1985), 110 – 123. MR 87a:30039.
= *Math. USSR-Sb.* 56 (1987), 107 – 119.
12. A symmetrization method and transfinite diameter, *Sibirsk. Mat. Zh.* 27:2 (1986), 39 – 46. MR 88j:30053.
= *Siberian Math. J.* 27:2 (1986), 174 – 180.
13. An extremal problem for meromorphic functions in multiply connected domains, *Izv. Vuz. Mat.* 1986, no.10, 52 – 56.
= *Sov.Math.* 30 (1986), no. 10, 72 – 77.

14. Covering theorems in the theory of analytic functions, *Zap. Nauchn. Sem. LOMI* 154 (1986), 67 – 75. MR 87k:30012.
= *J. Soviet Math.* 43 (1988), 2553 – 2558.
15. Segment covering theorems for conformal mapping of annulus, *Izv. VUZ Mat.* 1987, no. 9, 42 – 50. MR 89d:30009.
= *Sov. Math. (Iz. VUZ)* 31:9 (1987), 50 – 60.
16. Transformation of condensers in space, *Dokl. Acad. Nauk SSSR* 296 (1987), 18 – 20. MR 89d:31003.
= *Sov. Math. Dokl.* 36 (1988), 217 – 219.
17. The symmetrization method in geometric function theory, D. Sc. dissertation, Vladivostok 1988.
18. Distortion theorems in the theory of conformal mappings. *Mat. Zametki* 44:3 (1988), 341 – 351. MR 90k:30010.
= *Math. Notes* 44 1988, 668 – 674.
19. Separating transformation of domains and extremal partition problems, *Zap. Nauchn. Sem. LOMI* 168 (1988), 48 – 66. MR 90c: 30006.
= *J. Sov. Math.* 53 (1991), 252 – 263.
20. On the question of construction of symmetrization transformations, in: *Matematicheskaya fizika i matematicheskoi modelirovanie v ekologii* (Mathematical physics and mathematical simulation in ecology), Part 1, Far-Eastern Branch of the USSR Acad. Sci., Vladivostok 1990, pp. 55 – 69.
21. Covering of radial segments under a conformal map of a circle, *Sibirsk. Mat. Zh.* 31 : 2 (1990), 52 – 67. MR 91m:30009.
= *Siberian Math. J.* 31 (1990), 230 – 242.
22. Transformation of condensers in n -dimensional space, *Zap. Nauchn. Sem. LOMI* 196 (1991), 41 – 60. MR 93h:31007.
= *J. Math. Sci.* 70 (1994), 2085 – 2096.
23. Capacities and geometric transformations of subsets in n -space, *Geometric and Functional Analysis* 3:4 (1993), 342 – 369.
24. Symmetrization in the geometric theory of functions of a complex variable [in Russian], *Uspekhi Mat. Nauk* 49:1 (1994), 3 – 76.
= *J. Russ. Math. Surv.* 49:1 (1994), 1 – 79.
25. Some properties of the inner reduced modulus, *Sibirsk. Mat. Zh.* 35:4 (1994), 774 – 792.
= *Sib. Math. J.* 35 (1994), no. 4, 689 – 705.

26. Symmetrization, Green's function, and conformal mapping, *Zap. Nauchn. Sem. POMI* 226 (1996), 80 – 92.
= *J. Math. Sci.* 89:1 (1998), 967 – 975.
27. Asymptotics of the module of a degerating condensers and some of their applications, *Zap. Nauchn. Sem. POMI* 237 (1997), 56 – 73.
= *J. Math. Sci.* 95:3 (1999), 2209 – 2220.
28. (with L.V. Kovalev) The reduced module of the complex sphere, *Zap. Nauchn. Sem. POMI* 254 (1998), 76 – 94.
= *J. Math. Sci.* 105:4 (2001), 2165 – 2179.
29. (with E.G. Prilepkina) Extremal decomposition of spatial domains, *Zap. Nauchn. Sem. POMI* 254 (1998), 95 – 107.
= *J. Math. Sci.* 105:4 (2001), 2180 – 2189.
30. Reduced moduli of open sets in the theory of analytic functions, *Dokl. Acad. Nauk* 363 (1998), 731 – 734
= *Doklady Math.* 58 (1998), 458 – 461.
31. (with E.V. Kostyuchenko) The Teichmuller extremal problem and distortion theorems in the theory of univalent functions, *Sibirsk. Mat. Zh.* 40:2 (1999), 302 – 306.
= *Siberian Math.J.* 40:2 (1999), 258 – 261.
32. (with E.G. Akhmedzyanova) Radial transformations of sets, and inequalities for the transfinite diameter, *Izv. Vyssh. Uchebn. Zaved. Mat.* 4 (1999), 3 – 8.
= *Russian Math. (Iz. VUZ)* 43 (1999), 1 – 6.
33. A majorization principle for p -valent functions, *Mat. Zametki* 65 (1999), 533 – 541.
= *Math. Notes* 65 (1999), 447 – 453.
34. (with V. Yu. Kim) Reduced modules and inequalities for polynomials, *Zap. Nauchn. Sem. POMI* 263 (2000), 70 – 83.
= *J. Math. Sci.* 110:6 (2002), 3070–3077
35. Distortion theorems for polynomials on the circle, *Mat. Sb.* 191 (2000), 51 – 60.
= *Sb. Math.* 191 (2000), 1797 – 1807.
36. (with V. Yu. Kim) Averaging transformation of sets and functions on the Riemann surfaces, *Izv. Vyssh. Uchebn. Zaved. Mat.* 5 (2001), 21 – 29.
= *Russian Math. (Iz. VUZ)* 45:5 (2001), 19 – 27.
37. (with E.V. Kostyuchenko) Extremal problems of function theory connected with the n -fold symmetry, *Zap. Nauchn. Sem. POMI* 276 (2001), 83 – 111.
= *J. Math. Sci.* 118:1 (2003), 4778–4794.

38. Conformal mappings and inequalities for algebraic polynomials, *Algebra i Analiz* 13:5 (2001), 16 – 43.
= *St. Petersburg Math. J.* 13:5 (2002), 717–737.
39. On an application of conformal maps to inequalities for rational functions, *Izvestiya RAN: Ser. Mat.* 66 (2002), 67-80.
= *Izvestiya: Mathematics* 66 (2002), 285–297.
40. The Schwarz inequality on the boundary for functions regular in the disk, *Zap. Nauchn. Sem. POMI* 286 (2002), 74 – 84.
= *J.Math.Sci.* 122:6 (2004), 3623 – 3629.
41. (with A.V. Olesov) Application of conformal mappings to inequalities for polynomials, *Zap. Nauchn. Sem. POMI* 286 (2002), 85 – 102.
= *J.Math.Sci.* 122:6 (2004), 3630 – 3640.
42. (with N.V. Eyrikh) The generalized reduced modulus, *Far Eastern Math. J.* 3:2 (2002), 150–164.
43. (with E.G. Prilepkina) On the uniqueness theorems for the transformations of sets and condensers in the plane, *Far Eastern Math. J.* 3:2 (2002) 137–149.
44. Capacities of condensers in the geometric function theory, Far Eastern State University, Vladivostok, 2003.- 116p.
45. Conformal mappings and inequalities for algebraic polynomials II, *Zap. Nauchn. Sem. POMI* 302 (2003), 18 – 37.
= *J.Math.Sci.* 129:3 (2005), 3823 – 3834.
46. Generalized condensers and the asymptotics of their capacities under degeneration of some plates, *Zap. Nauchn. Sem. POMI* 302 (2003), 38 – 51.
= *J.Math.Sci.* 129:3 (2005), 3835 – 3842.
47. Symmetrization methods in the geometric function theory, *Trudy po geometrii i analizu. Novosibirsk. Iz-vo Mat. Inst.*, 2003, 126–150.
48. (with N.V. Eyrikh) Applications of generalized condensers to analytic function theory, *Zap. Nauchn. Sem. POMI* 314 (2004), 52 – 75.
= *J.Math.Sci.* 133:6 (2006), 1634 – 1647.
49. (with S.I. Kalmykov) Extremal properties of Chebyshev polynomials, *Far Eastern Math. J.* 5:2 (2004), 169 – 177.
50. Schwarz's lemma and estimates of coefficients for regular functions with free domain of definition, *Mat. Sb.* 196:11 (2005), 53 – 74.
= *Sb.Math.* 196:11 (2005), 1605 – 1625.

51. (with E.G. Prilepkina) On the preservation of generalized reduced modulus under some geometric transformations of domains in the plane, *Far Eastern Math. J.* 6:1-2 (2005), 39 – 56.
52. Polynomials with critical values on intervals, *Mat. Zametki* 78:6 (2005), 827 – 832.
= *Math. Notes* 78:6 (2005), 768 – 772.
53. Inequalities for critical values of polynomials, *Mat. Sb.* 197:8 (2006), 63 – 72.
= *Sb. Math.* 197:8 (2006), 1167 – 1176.
54. Lemniscates and inequalities for the logarithmic capacities of continua, *Mat. Zametki* 80:1 (2006), 33 – 37.
= *Math. Notes* 80:1 (2006), 31 – 35.
55. (with E.G. Prilepkina) On variational principles of conformal mappings, *Algebra i Analiz* 18:3 (2006), 39 – 62.
= *St. Petersburg Math. J.* 18 (2007), 373 – 389.
56. Capacities of condensers, generalizations of Grötzsch lemmas, and symmerization, *Zap. Nauchn. Sem. POMI* 337 (2006), 73 – 100.
= *J. Math. Sci.* 143:3 (2007), 3053 – 3068.
57. Applications of the Schwarz lemma to inequalities for entire functions with constraints on zeros, *Zap. Nauchn. Sem. POMI* 337 (2006), 101 – 112.
= *J. Math. Sci.* 143:3 (2007), 3069 – 3076.
58. (with S.I. Kalmykov) A majoration principle for meromorphic functions, *Mat. Sb.* 198:12 (2007), 37 – 46.
= *Sb. Math.* 198:12 (2007), 1737 – 1745.
59. (with V. Yu. Kim) Distortion theorems for functions regular and bounded in the disk, *Zap. Nauchn. Sem. POMI* 350 (2007), 26 – 39.
= *J. Math. Sci.* 150:3 (2008), 2018 – 2026.
60. (with V. Yu. Kim) On the covering of radial segments under p -valent mappings of a disk and an annulus, *Far Eastern Math. J.* 7:1-2 (2007), 40 – 47.
61. (with D. Karp) Generalized condensers and distortion theorems for conformal mappings of planar domains, In: *The Interaction of Analysis and Geometry* Edited by: V.I. Burenkov, T. Iwaniec, and S.K. Vodopyanov, *AMS Contemporary Mathematics*. - 2007. V.424, 33 – 51.
62. Majorization principles for meromorphic functions, *Mat. Zametki* 84:6 (2008), 803 – 808.
= *Math. Notes* 84:6 (2008), 751 – 755.

63. (with D.A.Kirillova) On extremal decomposition problems, *Zap.Nauchn.Sem.POMI* 357 (2008), 54 – 74.
= *J.Math.Sci.* 157:4 (2009), 573 – 583.
64. (with D.B.Karp and V.A.Shlyk) Selected problems of geometrical theory of functions and potential theory, *Far Eastern Math.J.* 8:1 (2008), 46 – 95.
65. Condenser capacities and majoration principles in the geometric theory of functions of a complex variable, *Siberian Electr.Math.Reports* 5 (2008), 465 – 482.
66. (with D.Karp) Capacities of certain plane condensers and sets under simple geometric transformations, *Complex Variables and Elliptic Equations* 53:6 (2008), 607 – 622.
67. Quadratic forms involving Green's and Robin functions, *Mat.Sb.* 200:10 (2009), 25 – 38.
= *Sb.Math.* 200:10 (2009), 1439 – 1452.
68. (with M.Vuorinen) On conformal moduli of polygonal quadrilaterals, *Israel J.Math.* 171 (2009), 111 – 125.
69. Condenser capacity and symmetrization in the extremal decomposition problems, *Far Eastern Math.J.* 9:1-2 (2009), 84 – 93.
70. On I.P.Mityuk's results on the behavior of the inner radius of a domain and the condenser capacity under regular mappings, *Zap.Nauchn.Sem.POMI* 371 (2009), 37 – 55.
= *J.Math.Sci.* 166:2 (2010).
71. (with T.Sugawa) Dual mean value problem for complex polynomials, *Proc. Japan. Acad. Ser.A, Math.Sci.* 85:9 (2009), 135 – 137.
72. Condenser capacity and symmetrization in the geometric function theory of a complex variable. *Dalnauka. Vladivostok*, 2009. - 401p.
73. (with E.G.Prilepkina) Distortion theorems for univalent meromorphic functions on an annulus, *Sibirsk. Mat. Zh.* 51:2 (2010), 285–302.
= *Siberian Math. J.* 51:2 (2010), 229–243.
74. Steiner symmetrization and the initial coefficients of univalent functions, *Izvestiya RAN: Ser. Mat.* 74:4 (2010), 75–82.
= *Izvestiya: Mathematics.* 74:4 (2010), 735–742.
75. On the finite-increment theorem for complex polynomials, *Mat. Zametki.* 88:5 (2010), 673–682.
= *Math. Notes.* 88:5 (2010), 13–20.

76. Lower bounds for the half-plane capacity of compact sets and symmetrization, *Mat. Sb.* 201:11 (2010), 77–88.
=Sbornik: Mathematics. 201:11 (2010), 1-12.
77. Geometric versions of Schwarz lemma and symmetrization, *Zap. Nauchn. Sem. POMI.* 383 (2010), 63–76.
78. (with M.Vuorinen) Robin functions and distortion theorems for regular mappings, *Math. Nachr.* 283:11 (2010), 1589–1602.
79. (with D.A.Kirillova) Some applications of extremal decompositions in the geometric function theory, *Far Eastern Math. J.* 10:2 (2010), 130–152.
80. On the components of the lemniscate containing no critical points of a polynomial other than its zeros, *Zap. Nauchn. Sem. POMI.* 383 (2010), 77–85.