

## Bibliography

- [1] L. Alhfors, *Conformal Invariants*, McGram - Hill, New York, 1973.
- [2] J. M. Anderson and A. Hinkkanen, Unbounded domains of normality, *Proc. Amer. Math. Soc.*, **126**, 1998, 3243–3252.
- [3] I. N. Baker, Zusammensetzungen ganzer funktionen, *Math. Z.*, **69**, 1958, 121–163.
- [4] I. N. Baker, Permutable entire functions, *Math. Z.*, **79**, 1962, 243–249.
- [5] I. N. Baker, Limit functions and set of non-normality in iteration theory, *Ann. Acad. Sci. Ser. A I Math.*, **467**, 1970, 1–11.
- [6] I. N. Baker, The domains of normality of an entire function, *Ann. Acad. Sci. Fenn. Ser. A I Math.*, **1**, 1975, 277–283.
- [7] I. N. Baker, An entire function which has wandering domains, *J. Austral. Math. Soc. Ser. A*, **22**, 1976, 173–176.
- [8] I. N. Baker, The iteration of polynomials and transcendental entire functions, *J. Austral. Math. Soc. Ser. A*, **30**, 1981, 483–495.
- [9] I. N. Baker, Wandering domains in the iteration of entire functions, *Proc. London Math. Soc.*, **49**, 1984, 563–576.
- [10] I. N. Baker, Some entire functions with multiply connected wandering domains, *Ergodic Theory Dynamical Systems*, **5**, 1985, 163–169.
- [11] I. N. Baker, Wandering domains for maps of the punctured plane, *Ann. Acad. Sci. Fenn. Ser. A I Math.*, **12**, 1987, 191–198.
- [12] I. N. Baker, *Iteration of Entire Functions: An Introductory Survey*, Lectures on Complex Analysis, World Scientific, Singapore, London, 1987, 1–17.
- [13] I. N. Baker, Infinite limits in the iteration of entire functions, *Ergodic Theory Dynamical Systems*, **8**, 1988, 503–507.
- [14] I. N. Baker, Limit functions in wandering domains of meromorphic functions, *Annales Academiæ Scientiarum Fennicæ mathematica*, **27**, 2002, 499–505.
- [15] I. N. Baker and A. P. Singh, Wandering domains in the iteration of compositions of entire functions, *Ann. Acad. Sci. Fen. Ser. A I*, **20**, 1995, 149–153.

- [16] I. N. Baker, P. Domínguez and M. E. Herring, Dynamics of functions meromorphic outside a small set, *Ergodic Theory Dynamical Systems*, **21**, 2001, 647–672.
- [17] I. N. Baker, P. Domínguez and M. E. Herring, Functions meromorphic outside a small set: completely invariant domains, *Complex Variables Theor. Appl.*, **49**, 2004, 95–100.
- [18] I. N. Baker, J. Kotus and Y. Lü Lyubich, Iterates of meromorphic functions I, *Ergodic Theory Dynamical Systems*, **8**, 1987, 191–198.
- [19] A. F. Beardon and Ch. Pommerenke, The poincarè metric of plane domains, *J. London Soc.*, **18**, 1978, 475–483.
- [20] A. F. Beardon, *Iteration of rational functions*, Springer-Verlag, New York, Berlin, 1993.
- [21] W. Bergweiler, Iteration of meromorphic functions, *Bull. Amer. Math. Soc. (N.S.)*, **29**, 1993, 151–188.
- [22] W. Bergweiler, *An introduction to complex dynamics*, Textos de Matemática, Universidade de Coimbra, Série B, **6**, 1995.
- [23] W. Bergweiler, On the Julia set of analytic self-maps of the punctured plane, *Analysis*, **15**, 1995, 251–256.
- [24] W. Bergweiler and A. E. Eremenko, On the singularities of the inverse to a meromorphic function of finite order, *Revista Matematica Iberoamericana*, **11**, 1995, 355–373.
- [25] W. Bergweiler and A. Hinkkanen, On semiconjugation of entire functions, *Math. Proc. Camb. Phil. Soc.*, **126**, 1999, 565–574.
- [26] W. Bergweiler and Y. Wang, On the dynamics of composition entire functions, *Ark. Math.*, **36**, 1998, 131–139.
- [27] W. Bergweiler, W. Haruta, H. Kriete, H. G. Meier and N. Terglane, On the limit functions of iterates in wandering dominis, *Ann. Acad. Sci. Fenn. Ser. A I Math.*, **18**, 1993, 369–375.
- [28] P. Bhattacharyya, Iteration of analytic functions, *Ph.D. Thesis*, University of London, 1969.

- [29] A. Bolsch, Repulsive periodic points of meromorphic function, *Complex variables Theor. Appl.*, **31**, 1996, 75–79.
- [30] A. Bolsch, Iteration of meromorphic functions with countably many singularities, *Dissertation*, Technische Universität, Berlin, 1997.
- [31] L. E. Böttcher, The principle laws of convergence of iterates and their applications to analysis, *Izv. Kazan. Fiz.-Mat. Obshch.*, **14**, 1904, 155–234.
- [32] C. Cao and Y. Wang, Boundedness of Fatou components of holomorphic maps, *Journal of Dynamics and differential Equations*, **16**, 2004, 377–384.
- [33] L. Carleson and T. W. Gamelin, *Complex Dynamics*, Springer-Verlag, New York, Berlin, 1993.
- [34] C. T. Chuang, *Normal Families of Meromorphic Functions*, Singapore, Hong Kong, World Scientific, 1993.
- [35] J. B. Conway, *Functions of One Complex Variable*, Springer-Verlag, 1978.
- [36] P. Domínguez, Dynamics of transcendental meromorphic functions, *Ann. Acad. Sci. Fenn. Ser. A I Math.*, **23**, 1998, 225–250.
- [37] A. E. Eremenko, On the iteration of entire functions, *Dynamical Systems and Ergodic Theory (Banach Center Publications)*, **23**, 1989, 339–345.
- [38] A. E. Eremenko and M. Lü Lyubich, Examples of entire functions with pathological dynamics, *Proc. London Math. Soc.*, **36**, 1987, 454–468.
- [39] A. E. Eremenko and M. Lü Lyubich, The dynamics of analytic transforms, *Leningrad Math. J.*, **36**, 1990, 563–634.
- [40] A. E. Eremenko and M. Lü Lyubich, Dynamical properties of some classes of entire functions, *Ann. Inst. Fourier: Grenoble*, **42**, 1992, 989–1020.
- [41] P. Fatou, Sur l’itération analytique et les substitutions permutables, *J. Math.*, **2**, 1923, 343–384.
- [42] P. Fatou, Sur l’itération des fonctions transcendentes entières, *Acta Math.*, **47**, 1926, 337–360.
- [43] L. R. Goldberg and L. Keen, A finiteness theorem for a dynamical class of entire functions, *Ergodic Theory Dynamical Systems*, **6**, 1986, 183–192.
- [44] R. Goldstein and F. Gross, Solutions of Problem 5329, *Amer. Math. Monthly*,

- 73**, 1966, 904–905.
- [45] W. K. Hayman, *Meromorphic functions*, Oxford, 1964.
- [46] M. Heins, Asymptotic points of entire and meromorphic functions, *Ann. of Math.*, **66**, 1957, 430–439.
- [47] M. E. Herring, An extension of the Julia-Fatou theory of iteration, *Ph.D. Thesis*, Imperial College, 1994.
- [48] X. H. Hua and C. C. Yang, *Dynamics of transcendental functions*, Gordon and Breach Science Publishers, 1998.
- [49] X. H. Hua and C. C. Yang, Fatou components of entire functions of small growth, *Ergodic Th. Dynam. Sys.*, **19**, 1999, 1281–1293.
- [50] G. Julia, Mémoire sur la permutable des fractions rationnelles, *Ann. Sci. École Norm. Sup.*, **39**, 1922, 131–215.
- [51] G. P. Kapoor, M. Sajid and M. G. P. Prasad, Dynamics of entire functions: A Review, *Mathematical Analysis and Applications*, A. P. Awivedi (Ed), 2000, 1–15.
- [52] L. Keen, Dynamics of holomorphic self-maps of  $\mathbb{C}^*$ , *Holomorphic Functions and Moduli I.*, Eds D. Drasin, C. J. Earle, F. W. Gehring, I. Kra and A. Marden, Springer, New York, 1988, 9–33.
- [53] L. Keen, Topology and growth of special class of holomorphic self-maps of  $\mathbb{C}^*$ , *Ergodic Theory Dynamical Systems*, **9**, 1989, 321–328.
- [54] G. Koenigs, Recherches sur les intégrals de certains équations fonctionnelles, *Ann. Sci. École Norm. Sup.*, **1**, 1884, supplém, 1–41.
- [55] J. Kotou, *Iterated holomorphic maps of the punctured plane in dynamical systems*, (*Lect. Notes. Econ. and Math. Syst.*, 287), Eds A. B. kurzhanski and K. Sigmund., Spring, Berlin, 1987, 10–29.
- [56] J. Kotou, The domains of normality of holomorphic self-map of  $\mathbb{C}^*$ , *Ann. Acad. Sci. Fenn. Ser. A I Math.*, **15**, 1990, 329–340.
- [57] J. K. Langley, Permutable entire functions and Baker domains, *Math. Proc. Camb. Phil. Soc.*, **125**, 1999, 199–202.
- [58] P. Lappan, A criterion for a meromorphic function to be normal, *Comment.*

- Math. Helv.*, **49**, 1974, 492–495.
- [59] P. M. Makienko, Iterates of analytic functions of  $\mathbb{C}^*$ , *Sov. Math. Dokl.*, **36**, 1988, 418–420 (Trans. from *Dokl. Akad. Nauk. SSSR* **297**, 1987).
- [60] F. Marty, Researches sur la répartition des valeurs d'une fonction méromorphe, *Ann. Fac. Sci. Univ. Toulouse*, **23**, 1931, 183–196.
- [61] C. McMullen, *Complex dynamics and renormalization*, Annals of Mathematics Studies, **135**, Princeton University Press, Princeton, NJ, 1994.
- [62] J. Milnor, *Dynamics in One Complex Variable: Introductory Lectures*, Friedr. Vieweg & Sohn, Braunschweig, 1999.
- [63] P. Montel, *Familles Normales*, Gauthiers-Villars, 1927.
- [64] R. Nevanlinna, *Analytic Functions*, Springer-Verlag, New York, 1970.
- [65] P. Niamsup and J. Palmore, Some Relations among Halley's Functions, Newton's Function and Successive Approximations, *preprint*, 1999.
- [66] P. Niamsup and J. Palmore, Rational solutions of functional equation, *Complex Variables.*, **46**, 2001, 51–58.
- [67] P. Niamsup, J. Palmore and Y. Lenbury, The composition of Halley's and Newton's Functions and its Schwarzian Derivative, *Complex Variables*, **45**, 2001, 349–353.
- [68] J. Palmore, A relation Between Newton's method and Successive Approximations for Quadratic Irrationals, In *From Topology to computation: Proceedings of the SMALEFEST*, Hirsch, M., Marsden, J. and Shub, M.(Eds.), Springer NY, 1993, 254–258.
- [69] J. Palmore, Newton's Method and Schwarzian Derivatives, *Journal of Dynamics and Differential Equations*, **6**, 1994, 507–511.
- [70] J. Palmore, Halley's Method and Schwarzian Derivatives, *Applicable Analysis*, **61**, 1996, 111–114.
- [71] J. Palmore, Shadowing by computable orbits of continued fraction convergents for algebraic numbers, *Complex Variables*, **26**, 1995, 359–366.
- [72] J. Palmore, Shadowing by computable orbits of continued fraction convergents for algebraic numbers II, *Complex Variables*, **32**, 1997, 363–372.

- [73] H. O. Peitgen and P. H. Richter, *The beauty of fractals*, Springer, Berlin, Heidelberg, New York, Tokyo, 1986.
- [74] H. Radström, On the iterations of analytic functions, *Math. Scand.*, **1**, 1953, 85–92.
- [75] T. Ransford, *Potential theory in the complex plane (London Mathematical Texts, 28)*, Cambridge University Press, 1995.
- [76] G. M. Stallard, The iteration of entire functions of small growth, *Math. Proc. Camb. Phil. Soc.*, **114**, 1993, 43–55.
- [77] N. Steinmetz, *Rational iteration*, Walter de Gruyter, Berlin, 1993.
- [78] D. Sullivan, Quasiconformal homeomorphisms and dynamics, *Ann. of Math.*, **122**, 1985, 401–418.
- [79] X. L. Wang and X. H. Hua, Dynamics of two permutable transcendental entire functions, *Preprint*.
- [80] Y. Wang, Bounded domains of the Fatou set of an entire function, *Israel J. Math.*, **121**, 2001, 55–60.
- [81] J. H. Zheng, Unbounded domains of normality of entire functions of small growth, *Math. Proc. Camb. Phil. Soc.*, **128**, 2000, 355–361.
- [82] J. H. Zheng, Singularities and wandering domains in iteration of meromorphic functions, *Illinois J. Math.* Vol. **44**, No. 3 Fall, 2000, 520–530.
- [83] J. H. Zheng, On non-existence of unbounded domains of normality of meromorphic functions, *J. Math. Anal. Appl.*, **264**, 2001, 479–494.
- [84] J. H. Zheng, Singularities and limit functions in iteration of meromorphic functions, *J. London Math. Soc.*, **67**, 2003, 195–207.
- [85] J. H. Zheng, Iteration of functions which are meromorphic outside a small set, *Tôhoku Mathematical Journal*, **57**, 2005, 23–43.
- [86] J. H. Zheng and S. Wang , Boundedness of components of Fatou sets of entire and meromorphic functions, *Indian J. Pure and Appl. Math.*, **35**, 2004, 1137–1148.
- [87] L. Zalcman, A heuristic principle in complex function theory, *Amer. Math. Monthly*, **82**, 1975, 55–58.