

PUBLICATION LIST OF KEN PALMER

Books and Monographs

1. (with U.Kirchgraber) “Geometry in the Neighborhood of Invariant Manifolds of Maps and Flows and Linearization,” Pitman Research Notes in Mathematics 233, Longman, 1990.
2. (co-editor with P.E.Kloeden) “Chaotic Numerics,” Proceedings of workshop at Deakin University, July 1993, Contemporary Mathematics 172, American Mathematical Society, Providence R.I., 1994.
3. “Shadowing in Dynamical Systems”, Mathematics and Its Applications, Vol. 501, Kluwer, 2000.

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1. (with S. Yamamuro) A note on finite-dimensional differentiable mappings, *J.Austral.Math.Soc.* **9** (1969), 405-408.
2. On the complete continuity of differentiable mappings, *ibid.* **9** (1969), 441-444.
3. (with W.A. Coppel) Averaging and integral manifolds, *Bull.Austral.Math.Soc.* **2** (1970), 197-222.
4. Averaging and integral manifolds (II), *Bull.Austral.Math.Soc.* **2** (1970), 369-400.
5. A generalization of Hartman’s linearization theorem, *J.Math.Anal.Appl.* **41** (1973) 753-758.
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10. On the existence of periodic solutions of a nonlinear vector differential equation, *J.Math.Anal.Appl.* **64** (1978), 328-333.
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17. Exponential dichotomy, integral separation and diagonalizability of linear systems of ordinary differential equations, *ibid.* **43** (1982), 184-203.
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20. On bounded solutions of almost periodic linear differential systems, *J.Math. Anal. Appl.* **103** (1984), 16-25.
21. Exponential dichotomies and transversal homoclinic points, *J.Differential Equations* **55** (1984), 225-256.
22. Transversal heteroclinic points and Cherry’s example of a nonintegrable Hamiltonian system, *ibid.* **65** (1986), 321-360.
23. (with R.A. Johnson and G.R. Sell) Ergodic properties of linear dynamical systems, *SIAM J. Math. Anal.* **18** (1987), 1-33.
24. On the stability of the center manifold, *Z. Angew.Math.Phys.* **38** (1987), 273-278.
25. A perturbation theorem for exponential dichotomies, *Proc.Royal Soc.Edinburgh* **106A** (1987), 25-37.
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27. Exponential dichotomies, the shadowing lemma and transversal homoclinic points, *Dynamics Reported* **1** (1988), 265-306.
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34. (with F. Battelli) Tangencies between stable and unstable manifolds, *Proc. Royal Soc. Edinburgh* **121A** (1992), 73-90.
35. (with F. Battelli) Chaos in the Duffing equation, *J. Differential Equations* **100** (1992), 276-301.
36. (with S.N. Chow) On the numerical computation of orbits of dynamical systems: the higher dimensional case, *J. Complexity* **8** (1992), 398-423.
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43. (with B.A. Coomes and H. Koçak) Long periodic shadowing, *Numerical Algorithms* **14** (1997), 55-78.
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45. (with D.Stoffer) Rigorous verification of chaotic behaviour of maps using validated shadowing, *Nonlinearity* **12** (1999), 1683-1698.
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47. (with F. Battelli) Transversal intersection of invariant manifolds in singular systems, *J. Differential Eqns.* **177** (2001), 77-120.
48. (with F. Battelli) Singular perturbations, transversality and Silnikov saddle-focus homoclinic orbits, *J. Dynamics and Diff.Eqns.* **15** (2003), 357-425.
49. (with S. Siegmund) Generalized attractor-repeller pairs, diagonalizability and integral separation, *Adv. Nonlin.Stud.* **4** (2004), 189-207.
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51. Exponential dichotomies and expansivity, *Annali Mat. Pura Appl.* **181** (2006), S171-S18
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57. (with F. Battelli) Heteroclinic orbits in singularly perturbed systems, *Disc. Cont. Dyn. Sys.*, to appear.
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2. Review on “Differential Equations: Classical to Controlled” by Dahlard L. Lukes, *SIAM Review* **26** (1984), 291-292.
3. (with S.N.Chow, X.B. Lin) A shadowing lemma for maps in infinite dimensions, in “Differential Equations”, Marcel Dekker, 1989, 127-135.
4. (with S.N.Chow) The accuracy of numerically computed orbits of dynamical systems, in Proceedings of Equadiff, Prague, 1989, Teubner, 74-76.
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6. Bifurcation, chaos and fractals, in “Nonlinear Dynamics and Chaos”, World Scientific, Singapore, 1992, 91-134.
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