

## References

- [1] K. R. Meyer and D. S. Schmidt. Periodic orbits near  $\mathcal{L}_4$  for mass ratios near the critical mass ratio of Routh. *Celestial Mech.*, 4:99–109, 1971.
- [2] D. S. Schmidt. Families of periodic orbits in the restricted three body problem connecting direct and retrograde orbits. *SIAM Journal of Applied Mathematics*, 22:27–37, 1972.
- [3] D. S. Schmidt and L. Teng. Stability analysis of the Riccati covariance equation. In *Proceedings of the third Symposium on non-linear estimation and its applications*, pages 252–253, 1972.
- [4] D. S. Schmidt. The family of direct periodic orbits of the first kind in the restricted problem of three bodies. In *Proceedings of the NRL–MRC conference on ordinary differential equations*, pages 552–561. Academic Press, 1972.
- [5] D. Sweet and D. S. Schmidt. A unifying theory of determining periodic families for Hamiltonian systems at resonance. *Journal of Differential Equations*, 14:597–609, 1973.
- [6] D. S. Schmidt. Periodic solutions near a resonant equilibrium of a Hamiltonian system. *Celestial Mech.*, 9:81–103, 1974.
- [7] D. S. Schmidt. Hopf’s bifurcation theorem and the center theorem of Liapunov. In J. E. Marsden and M. McCracken, editors, *The Hopf Bifurcation and its application*, pages 95–103. Springer, 1976.
- [8] K. R. Meyer and D. S. Schmidt. Entrainment domains. *Funkcialaj Ekvacioj*, 20:171–192, 1977.
- [9] D. S. Schmidt. Hopf’s bifurcation theorem and the center theorem of Liapunov with resonance cases. *Journal of Math. Analysis and Applications*, 63:354–370, 1978.
- [10] D. S. Schmidt. Literal solution for Hill’s lunar problem. *Celestial Mech.*, 19:279–289, 1979.
- [11] A. Deprit and D. S. Schmidt. Exact coefficients of the limit cycle in van der Pol’s equation. *Journal of research NBS*, 84:293–297, 1979.
- [12] K. R. Meyer and D. S. Schmidt. Entrainment domains. In *Proceedings of the VIIIth International Conference on Nonlinear Oscillations, Vol. I (Prague, 1978)*, pages 479–482. Academia, Prague, 1979.
- [13] D. S. Schmidt. The lunar theory of Hill and Brown. *Celestial Mechanics*, 21:163–169, 1980.
- [14] D. S. Schmidt. The main problem of lunar theory solved by the method of Brown. *The Moon and the Planets*, 23:135–164, 1980.
- [15] K. R. Meyer and D. S. Schmidt. The determination of the derivatives in Brown’s lunar theory. *Celestial Mechanics*, 28:201–207, 1982.

- [16] K. R. Meyer and D. S. Schmidt. Hill's lunar equations and the three body problem. *Journal of Differential Equations*, 44:263–272, 1982.
- [17] M. Gutzwiller and D. S. Schmidt. *The motion of the moon as computed by the method of Hill, Brown and Eckert*, volume 23. Nautical Almanac Office, U.S. Naval Observatory, 1986.
- [18] K. R. Meyer and D. S. Schmidt. The stability of the Lagrange triangular point and a theorem of Arnol'd. *Journal of Differential equations*, 62:222–236, 1986.
- [19] K. R. Meyer and D. S. Schmidt. Bifurcations of relative equilibria in the 4 and 5 body problem. *Ergodic Theory and Dynamical Systems*, 8:215–225, 1988.
- [20] K. R. Meyer and D. S. Schmidt. Bifurcations of relative equilibria in the  $N$ -body and Kirchhoff problems. *SIAM Journal on Math. Anal.*, 19:1295–1313, 1988.
- [21] D. S. Schmidt. Central configurations in  $\mathbf{R}^2$  and  $\mathbf{R}^3$ . In K. R. Meyer and D. G. Saari, editors, *Hamiltonian Dynamical Systems*, volume 81, pages 59–76. American Mathematical Society, 1988.
- [22] D. S. Schmidt. The stability of the Lagrangian point  $\mathcal{L}_4$ . In *Applications of Computer Technology to Dynamical Astronomy*, volume 45, pages 201–206. IAU Colloquium 109, Celestial Mechanics, 1988.
- [23] K. R. Meyer and D. S. Schmidt. Bifurcations of central configurations in the  $N$ -body problem. In *Proceedings of Conference on Mathematics of Nonlinear Science, Contemporary Mathematics*, volume 108, pages 93–101, 1989.
- [24] D. S. Schmidt. Transformations to versal normal form. In Meyer and Schmidt, editors, *Computer Aided Proofs in Analysis*, volume 28, pages 235–240. IMA, 1989.
- [25] D. S. Schmidt. POLYPAK: an algebraic processor for computations in celestial mechanics. In Chudnovsky and Jenks, editors, *Computer Algebra*, pages 111–120. Marcel Dekker, 1989.
- [26] D. S. Schmidt. Versal normal form of the Hamiltonian function of the restricted problem of three bodies near  $\mathcal{L}_4$ . *Journal of Computational and Applied Mathematics*, 52:155–176, 1994.
- [27] K. R. Meyer and D. S. Schmidt, editors. *Computer aided proofs in analysis. Papers from the International Conference held at the University of Cincinnati, Cincinnati, Ohio, April 1989*. The IMA Volumes in Mathematics and its Applications, 28, Springer-Verlag, New York, 1991.
- [28] K. R. Meyer and D. S. Schmidt. Librations of central configurations and braided rings of Saturn. *Celest. Mech.*, 55:289–303, 1993.
- [29] D. S. Schmidt. Computing the motion of the moon accurately. In H.S. Dumas, K.R.Meyer, and D.S.Schmidt, editors, *Proceedings on Hamiltonian Dynamical Systems: History, Theory and Applications*, volume 63 of *IMA Volumes in Mathematics and its Application*, pages 341–361. Springer, 1994.

- [30] D. S. Schmidt. The stability transition curve at  $\mathcal{L}_4$  in the elliptic restricted problem of three bodies. In E. A. Lacomba and J. Llibre, editors, *Hamiltonian Systems and Celestial Mechanics*, volume 4, pages 167–180. World Scientific Publishing Co.,, 1993.
- [31] D. S. Schmidt. Bookreview: ‘Scientific Programmer’s Toolkit, by Beilby, Harding, and Manning’. *SIAM Review*, 36:319–320, 1994.
- [32] D. S. Schmidt. Spectral stability of relative equilibria in the  $N + 1$  body problem. In E. A. Lacomba and J. Llibre, editors, *New Trends for Hamiltonian Systems and Celestial Mechanics*, volume 8, pages 321–341. World Scientific Publishing Co., 1995.
- [33] H. S. Dumas, K. R. Meyer, and D. S. Schmidt, editors. *Hamiltonian dynamical systems. History, theory, and applications. (Papers from the International Conference held at the University of Cincinnati, Cincinnati, Ohio, March 1992)*. The IMA Volumes in Mathematics and its Applications, 63, Springer-Verlag, New York, 1995.
- [34] D. L. Richardson, D. S. Schmidt, and J. Mitchell. Improved Chebyshev methods for the numerical integration of first order differential equations. In J. W. Middour, L. L. Sackett, L. A. D’Amario, and D. V. Byrnse, editors, *Spaceflight Mechanics 1998*, volume 99, Part II, pages 1533–1543. American Astronautical Society., 1998.
- [35] K. R. Meyer and D. S. Schmidt. From the restricted to the full three–body problem. *Trans. Amer. Math. Soc.*, 352:2261–2281, 2000.
- [36] H. E. Cabral and D. S. Schmidt. Stability of relative equilibria in the problem of  $N + 1$  vortices. *SIAM J. Math. Anal.*, 31:231–250, 1999.
- [37] D. S. Schmidt. The motion of the moon. In H. Cabral and F. Diacu, editors, *Classical and Celestial Mechanics, the Recife Lectures*, pages 205–238. Princeton University Press, 2002.
- [38] D. S. Schmidt. Central configurations and relative equilibria for the  $N$ –body problem. In H. Cabral and F. Diacu, editors, *Classical and Celestial Mechanics, the Recife Lectures*, pages 1–34. Princeton University Press, 2002.
- [39] H. E. Cabral, K. R. Meyer, and D. S. Schmidt. Stability and bifurcations of the  $N + 1$  vortex problem on the sphere. *Regular and Chaotic Dynamics*, 8:259–282, 2003.
- [40] D. S. Schmidt. The stability of the Thomson heptagon. *Regular and Chaotic Dynamics*, 9:519–528, 2004.
- [41] Jintai Ding and Dieter Schmidt. Cryptanalysis of Sflash<sup>v3</sup>. <http://eprint.iacr.org/2004/103>.
- [42] Jintai Ding and Dieter Schmidt. A common defect of the TTM cryptosystem. In *Proceedings of the technical track of the ACNS’03, ICISA Press*, pages 68–78, 2003. <http://eprint.iacr.org/2003/085>.

- [43] Jintai Ding and Dieter Schmidt. The new TTM implementation is not secure. In Kegin Feng, Harald Niederreiter, and Chaoping Xing, editors, *Workshop on Coding Cryptography and Combinatorics, CCC2003 Huangshan (China)*, volume 23 of *Progress in Computer Science and Applied Logic*, pages 113–127. Birkhäuser Verlag, 2004.
- [44] Jintai Ding, Jason Gower, Dieter Schmidt, Christopher Wolf, and Zhijun Yin. Complexity estimates for the  $F_4$  attack on the perturbed Matsumoto-Imai cryptosystem. In N.P. Smart, editor, *Cryptography and Coding 2005*, volume 3796 of *LNCS*, pages 262–277. Springer, 2005. <http://math.uc.edu/~aac/pub/pmi-groebner.pdf>.
- [45] K. R. Meyer and D. S. Schmidt. Elliptic relative equilibria in the n-body problem. *Journal of Differential Equations*, 214:256–298, 2005.
- [46] Jintai Ding and Dieter Schmidt. Rainbow, a new multivariable polynomial signature scheme. In John Ioannidis, Angelos D. Keromytis, and Moti Yung, editors, *Third International Conference Applied Cryptography and Network Security (ACNS 2005)*, volume 3531 of *LNCS*, pages 164–175. Springer, 2005.
- [47] Jintai Ding and Dieter Schmidt. Cryptanalysis of HFEV and the internal perturbation of HFE. In Serge Vaudenay, editor, *Public key cryptography: PKC 2005: 8th International Workshop on Theory and Practice in Public Key Cryptography, Les Diablerets, Switzerland, January 23-26, 2005*, volume 3386 of *LNCS*, pages 288–301. Springer, 2005.
- [48] J. Ding and D. S. Schmidt. Cryptanalysis of the new TTS schemes in CHES-2004. *Journal of Information Security*, 5:231–240, 2006.
- [49] Jintai Ding, Jason Gower, and Dieter Schmidt. Zhuang-Zi: A new algorithm for solving multivariate polynomial equations over a finite field. Preprint, University of Cincinnati, 2006.
- [50] Jintai Ding and Dieter Schmidt. Multivariable public key cryptosystems. In *Algebra and its applications*, volume 419, pages 79–94. Amer. Math. Soc., 2006.
- [51] Jintai Ding, Jason Gower, and Dieter Schmidt. *Multivariate public key cryptosystems*. Springer, New York, 2006.

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