

List of References

1. *Regularisierung und konforme Abbildung*. In: Mathematische Methoden der Himmelsmechanik, Mathematisches Forschungsinstitut Oberwolfach, Berichte **1** (1966), 33-45 (Diplomarbeit).
2. *Problème restreint des trois corps. Généralisation de la régularisation de Birkhoff pour le mouvement du mobile dans l'espace à trois dimensions* (with E. Stiefel). C.R. Acad. Sc. Paris **260** (1965), 805.
3. *Die Verallgemeinerung der Birkhoff-Regularisierung für das räumliche Dreikörperproblem*. Bulletin Astronomique, Série 3, Tome II, Fasc. 2 (1967), 295-341 (Dissertation).
4. *The restricted elliptic three-body problem*. In: E. Stiefel et. al., Methods of Regularization for Computing Orbits in Celestial Mechanics, NASA Contractor Report NASA CR **769** (June 1967), 88-115.
5. *A simple adaptive guidance scheme for minimum fuel two-finite-burns rendezvous* (with W. Trautwein). AIAA Guidance, Control, and Flight Dynamics Conference, Pasadena, California, August 12-14, 1968, Paper No. 68-858.
6. *Recursive solution of a system of linear equations related to correlation analysis*. Lockheed Missiles and Space Company, Huntsville Research and Engineering Center, Technical Report, February 1970.
7. *Optimum rendezvous guidance study*. Lockheed Missiles and Space Company, Huntsville Research and Engineering Center, Final Report D149128, August 1969.
8. *Note concerning a conjecture by A. Wintner*. Celestial Mechanics **5** (1972), 37-40.
9. *A new regularization of the planar problem of three bodies*. Celestial Mechanics **6** (1972), 221-231.
10. *Collision singularities in gravitational problems*. In: V. Szebehely and B.D. Tapley (eds.), Recent Advances in Dynamical Astronomy, Reidel 1973, 21-33.
11. *The rectilinear restricted problem of three bodies*. Celestial Mechanics **8** (1973), 189-198.
12. *Altes und Neues über das Dreikörperproblem*. Verhandlungen der Schweizerischen Naturforschenden Gesellschaft (1974), 77-81.
13. *The close triple approach*. Celestial Mechanics **11** (1975), 429-432.
14. *The Newtonian potential of a homogeneous cube*. ZAMP **27** (1976), 867-871.
15. *Triple collision*. In: V. Szebehely and B.D. Tapley (eds.), Long Time Prediction in Dynamics, Reidel 1976, 241-258.

16. *The three-body problem near triple collision.* Celestial Mechanics **14** (1976), 287-300.
17. *Triple collision as an unstable equilibrium.* Bull. Acad. Royale de Belgique, Classe des Sci., **63** (1977), 34-50.
18. Diverse Übersichtsartikel über Numerische Mathematik im Bulletin des Rechenzentrums der ETH (1976, 1977): *Lineare Gleichungssysteme* (Nr. 25), *Rundungsfehler* (Nr. 27), *Numerische Quadratur* (Nr. 28), *Elliptische Integrale* (Nr. 29).
19. *Boundary value problems in infinite intervals.* In: R. Bulirsch et. al. (eds.), Numerical Treatment of Differential Equations, Lecture Notes in Mathematics **631**, Springer 1978, 201-208.
20. *Datenstrukturen.* In: Kombinatorische Entscheidungsprobleme. Lecture Notes in Economics and Mathematical Systems **153**, Springer 1978, 170-183.
21. *Stable and unstable manifolds in planar triple collision.* In: V. Szebehely (ed.), Instabilities in Dynamical Systems, Reidel 1979, 263-271.
22. *La variété de collision triple.* C.R. Acad. Sc. Paris, **288** (1979), 635-637.
23. *The Newtonian potential of homogeneous polyhedra.* ZAMP **30** (1979), 388-398.
24. *The variational equation of the three-body problem.* Celestial Mechanics **21** (1980), 171-175.
25. *Symmetric and regular coordinates on the plane triple collision manifold.* Celestial Mechanics **28** (1982), 69-82.
26. *Coordonnées symétriques sur la variété de collision triple du problème plan des trois corps.* In: V. Szebehely (ed.), Applications of Modern Dynamics to Celestial Mechanics and Astrodynamics, Reidel 1982, 249-266.
27. *Bifurcation of periodic orbits in coupled chemical reactors II* (with A. Friedli und U. Kirchgaber). Math. Meth. in the Appl. Sci. **5** (1983), 216-232.
28. *The period in the Volterra-Lotka predator-prey model.* SIAM J. Numer. Anal. **20** (1983), 1264-1272.
29. *Addition of points to Gauß-Laguerre quadrature formulas* (with D.K. Kahaner und L.W. Fullerton). SIAM J. Sci. Stat. Comput. **5** (1984), 42-55.
30. *Der Tayloralgorithmus.* ZAMP **35** (1984), 780-789.
31. *The three-body problem with two small masses: A singular-perturbation approach to the problem of Saturn's coorbiting satellites* (with Franz Spirig). In: V. Szebehely (ed.), Stability of the Solar System and its Minor Natural and Artificial Bodies, Reidel 1985, 53-63.

32. *The period in the Lotka-Volterra system is monotonic.* J. Math. Anal. Appl. **114** (1986), 178-184.
33. *Integralberechnung.* In: H.R. Schwarz, Numerische Mathematik, Teubner 1986, 319-338. English edition: *Numerical Quadrature.* In: H.R. Schwarz, Numerical Analysis, John Wiley 1989, 330-350.
34. *Zero-free disks in families of analytic functions.* In: E.B. Saff (ed.): Approximation Theory, Tampa, Lecture Notes in Mathematics **1287**, Springer 1987, 209-228.
35. *Coorbital satellites and Hill's lunar problem* (with F. Spirig). In: A.E. Roy (ed.), Long-term Dynamical Behaviour of Natural and Artificial N -Body Systems, Kluwer 1988, 223-234.
36. *Numerical quadrature in several dimensions.* In: H. Brass and G. Haemmerlin (eds.), Numerical Integration III, Birkhäuser 1988, 295-309.
37. *Chaos in coorbital motion* (with F. Spirig). In: A.E. Roy (ed.), Predictability, Stability and Chaos in N -Body Dynamical Systems, Kluwer 1991, 395-410.
38. *Asymptotics for the zeros of the partial sums of $\exp(z)$, I* (with A. Carpenter and R.S. Varga). Rocky Mountain J. of Math. **21**, (1991).
39. *The problem of the circular billiard.* Elem. Math. **47** (1992), 108-113.
40. *Entscheidungsgrundlagen für die Normierung der ganzzahligen Arithmetik: Varianten der div- und mod-Operationen* (with J. Nievergelt). Informatik-Spektrum **15** (1992), 107-109.
41. *Orbits in the planar problem of three bodies* (with D. Gruntz). In: W. Gander and J. Hrebicek (es.), Solving Problems in Scientific Computing Using Maple and MATLAB, Springer 1993, 37-57.
42. *On the combination of MMP (Multiple Multipole Program) with MOM (Method of Moments)* (with Y. Brand, Ch. Hafner, J. Mosig, J. Zheng). ACES Journal **3** (1994), 1-10.
43. *Chaotic motion in Hill's lunar problem* (with F. Spirig). In: A.E. Roy and B.A. Steves (eds.), From Newton to Chaos, NATO ASI Series B, Plenum 1995, 217-230.
44. *Circuits in power electronics.* In: W. Gander and J. Hrebicek (eds.), Solving Problems in Scientific Computing Using Maple and MATLAB, Springer 1995, 2nd ed., 299-311.
45. *Pricing callable bonds by means of Green's function* (with H.J. Büttler). Mathematical Finance **6** (1996), 53-88.
46. *Symplectic integrators for Hill's lunar problem.* In: R. Dvorak and J. Henrard (eds.), Dynamical Behaviour of our Planetary System, Kluwer 1997, 291-305.

47. *A functional equation related to the iteration of functions* (with R. Resch and F. Stenger). *Aequationes Mathematicae* **60** (2000), 25-37.
48. *Contour plots of analytic functions* (with W. Gautschi). In: W. Gander and J. Hrebicek (eds.), *Solving Problems in Scientific Computing Using Maple and MATLAB*, Springer 1997, 3rd ed., 359-372.
49. *Long-term evolution of coorbital motion*. In: B.A. Steves and A.E.Roy (eds.), *The Dynamics of Small Bodies in the Solar System: A Major Key to Solar System Studies*, NATO ASI Series C, Plenum 1999, 257-276.
50. *Jost Bürgi, a Swiss discoverer of the logarithms*. In: H. Joss (ed.), *Slide Rule '98*, ISBN 3952 1605-1-2, 1998, 15-22.
51. *Central configurations revisited*. In: B.A. Steves and A.J. Maciejewski (eds.): *The Restless Universe: Applications of Gravitational N-Body Dynamics to Planetary, Stellar and Galactic Systems*. The Scottish Physical Society, 2001, 285-299.
52. *Computing the Hilbert transform of the generalized Laguerre and Hermite weight functions* (with W. Gautschi). *BIT* **41** (2001), 490-503.
53. *Triple collision and close triple encounters*. In: D. Benest and C. Froeschlé (eds.), *Singularities in Gravitational Systems. Applications to Chaotic Transport in the Solar System*. Lecture Notes in Physics, Springer 2002, 81 - 100.
54. *The SIAM 100-Digit Challenge* (by Folkmar Bornemann, Dirk Laurie, Stan Wagon, and Jörg Waldvogel). SIAM, Philadelphia 2004, 306 pp.
55. *Order and chaos in satellite encounters*. In: B.A. Steves, A.J. Maciejewski and M. Hendry (eds.), *Chaotic Worlds: From Order to Disorder in Gravitational N-Body Dynamical Systems*. Springer 2006, 231-251.
56. *Fast construction of the Fejér and Clenshaw-Curtis quadrature rules*. *BIT Numerical Mathematics* **46** (2006), 195-202.
57. *Quaternions and the perturbed Kepler problem*. *Celest. Mech. Dyn. Astr.* **95** (2006), 201-212.
58. *The feet of the altitudes of a simplex* (with A. Gut). *Elem. Math.* **63** (2008), 25-29.
59. *Quaternions for regularizing celestial mechanics – the right way*. *Celest. Mech. Dyn. Astr.* **102** (2008), 149-162.
60. *Towards a general error theory of the trapezoidal rule*. In: W. Gautschi, G. Mastroianni, Th.M. Rassias (eds.), *Approximation and Computation. In honor of Gradimir V. Milovanović*. Springer Optimization and its Applications **42**, 267–282, Springer, New York, 2011.

61. *Fundamentals of regularization in celestial mechanics and linear perturbation theories.* In: B.A. Steves, M. Hendry and A.C. Cameron (eds.), *Extra-Solar Planets: The detection, formation, evolution and dynamics of planetary systems.* CRC Press 2011, 169-184.
62. *The rhomboidal symmetric four-body problem.* *Celest. Mech. Dyn. Astr.* **113** (2012), 113 - 123.
63. *Jost Bürgi and the discovery of the logarithms.* *Elem. Math.* **69** (2014), 89 - 117.
64. *Jost Bürgi's Artificium of 1586 in modern view, an ingenious algorithm for calculating tables of the sine function.* *Elem. Math.* **71** (2016), 89 - 99.