Publications

[1] I. H. Sloan, The method of polarized orbitals for the elastic scattering of slow electrons by ionized helium and atomic hydrogen, *Proc. Roy. Soc. (London)*, **A281** (1964), 151–163.

[2] I. H. Sloan, H. S. W. Massey, The exchange-polarization approximation for elastic scattering of slow electrons by atoms and ions: electron scattering by helium ions, M.R.C. McDowell (ed), *Atomic Collision Processes*, North Holland, Amsterdam, (1964), 14–15.

[3] I. H. Sloan, The ionization of neutral helium by electron impact, *Proc. Phys. Soc.*, **85** (1965), 435–442.

[4] I. H. Sloan, Unitary modification of the impulse-pickup approximation, *Phys. Lett.*, **25B** (1967), 84–85.

[5] I. H. Sloan, Unitary modifications of the impulse approximation, *Phys. Rev.*, **162** (1967), 855–858.

[6] I. H. Sloan, Approximation method for three-body collisions, *Phys. Rev.*, **165** (1968), 1587–1594.

[7] I. H. Sloan, Errors in the Numerov and Runge-Kutta Methods, *J. Computational Phys.*, **2** (1968), 414–416.

[8] I. H. Sloan, Method for the numerical solution of linear second-order differential equations, *J. Computational Phys.*, **3** (1968), 40–45.

[9] I. H. Sloan, The numerical evaluation of principal-value integrals, *J. Computational Phys.*, **3** (1968), 332–333.

[10] I. H. Sloan, E. J. Moore, Integral equation approach to electron-hydrogen collisions, *J. Phys. B (Proc. Phys. Soc.)*, **1** (1968), 414–422.

[11] I. H. Sloan, Multiple-scattering analysis on a soluble neutron-deuteron model, *Phys. Rev.*, **185** (1969), 1361–1370.

[12] I. H. Sloan, Tensor force in the separable potential model of neutron-deuteron collisions, *Nucl. Phys.*, **A139** (1969), 337–352.

[13] R. T. Cahill, I. H. Sloan, Neutron-Deuteron breakup with Amado's model, The Three-Body Problem, eds. J.S.C. McKee and P.M. Rolph, North Holland, Amsterdam, (1970), 265–274.

[14] R. T. Cahill, I. H. Sloan, Neutron-deuteron breakup models, *Phys. Lett.*, **33B** (1970), 195–196.

[15] R. T. Cahill, I. H. Sloan, Neutron-deuteron scattering with soft core, *Phys. Lett.*, **31B** (1970), 353–354.

[16] R. T. Cahill, I. H. Sloan, Theory of neutron-deuteron breakup at 14.4 MeV, *Nucl. Phys.*, **A165** (1971), 161–179.

[17] I. H. Sloan, Levinson's theorem and S-wave neutron-deuteron scattering, *Phys. Lett.*, **34B** (1971), 243–244.

[18] I. H. Sloan, Perturbation methods for three-body collisions, *Bull. Amer. Phys. Soc.*, **16** (1971), 1349.

[19] I. H. Sloan, Phase parameters for nucleon-deuteron scattering, *Nucl. Phys.*, **A168** (1971), 211–224.

[20] J. C. Aarons, I. H. Sloan, Krauss-Kowalski calculations of nucleon-deuteron polarization, *Phys. Rev.*, **C5** (1972), 582–585.

[21] J. C. Aarons, I. H. Sloan, Vector and tensor polarizations in nucleon-deuteron scattering, *Nucl. Phys.*, **A182** (1972), 369–384.

[22] T. J. Brady, I. H. Sloan, Padé approximants and nucleon-deuteron scattering, *Phys. Lett.*, **40B** (1972), 55–57.

[23] T. J. Brady, I. H. Sloan, Variational approach to breakup calculations in the Amado model, Few Particle Problems in the Nuclear Interaction eds. I. Slaus, S.A. Moszkowski, R.P. Haddock and W.T.H. van Oers, North Holland/American Elsevier, Amsterdam, (1972), 364–367.

[24] R. T. Cahill, I. H. Sloan, The n-d initial-state interaction in n-d breakup, *Nucl. Phys.*, **A194** (1972), 589–598.

[25] P. Doleschall, J. C. Aarons, I. H. Sloan, Exact calculations of n-d polarization, *Phys. Lett.*, **40B** (1972), 605–606.

[26] I. H. Sloan, A three-nucleon scattering calculation using perturbation theory, *Nucl. Phys.*, **A188** (1972), 193–204.

[27] I. H. Sloan, Equations for four-particle scattering, *Phys. Rev.*, **C6** (1972), 1945–1955.

[28] I. H. Sloan, Separable expansions and perturbation theory for three-body collisions, *Nucl. Phys.*, **A182** (1972), 549–557.

[29] I. H. Sloan, J. C. Aarons, Vector and tensor polarizations in nucleon-deuteron scattering II, *Nucl. Phys.*, **A198** (1972), 321–342.

[30] I. H. Sloan, T. J. Brady, Variational approach to the on- and off-shell t-matrix, *Phys. Rev.*, **C6** (1972), 701–709.

[31] I. H. Sloan, T. J. Brady, Variational calculations of the off-shell t-matrix, *Bull. Amer. Phys. Soc.*, **17** (1972), 608.

[32] T. J. Brady, I. H. Sloan, Variational calculations of three-body amplitudes, *Bull. Amer. Phys. Soc.*, **18** (1973), 18.

[33] I. H. Sloan, Sturmian expansion of the Coulomb t-matrix, *Phys. Rev.*, **A7** (1973), 1016–1023.

[34] I. H. Sloan, J. D. Gray, Separable expansions of the t-matrix, *Phys. Lett.*, **44B** (1973), 354–356.

[35] T. J. Brady, I. H. Sloan, Variational method for off-shell three-body amplitudes, *Phys. Rev.*, **C9** (1974), 4–15.

[36] I. H. Sloan, Few-body problems in nuclear physics, *Australian Physicist (Supplement) April*, **4** (1974), 3.

[37] I. H. Sloan, S. K. Adhikari, Method for Lippmann-Schwinger equations, *Nucl. Phys.*, **A235** (1974), 352–360.

[38] S. K. Adhikari, I. H. Sloan, Method for three-body equations, *Phys. Rev.*, **C12** (1975), 1152–1157.

[39] S. K. Adhikari, I. H. Sloan, Separable expansion of the t-matrix in the $^3S_1 -^3 D_1$ channel, *Nucl. Phys.*, **A251** (1975), 297–304.

[40] S. K. Adhikari, I. H. Sloan, Separable expansion of the t-matrix with analytic form factors, *Phys. Rev.*, **C11** (1975), 1133–1140.

[41] S. K. Adhikari, I. H. Sloan, Separable operator expansions for the t-matrix, *Nucl. Phys.*, **A241** (1975), 429–442.

[42] I. H. Sloan, B. J. Burn, N. Datyner, A new approach to the numerical solution of integral equations, *J. Computational Phys.*, **18** (1975), 92–105.

[43] I. H. Sloan, Convergence of degenerate-kernel methods, *J. Austral. Math. Soc. Series B*, **19** (1976), 422–431.

[44] I. H. Sloan, Error analysis for a class of degenerate-kernel methods, *Numer. Math.*, **25** (1976), 231–238.

[45] I. H. Sloan, Improvement by iteration for compact operator equations, *Math. Comp.*, **30** (1976), 758–764.

[46] I. H. Sloan, Iterated Galerkin method for eigenvalue problems, *SIAM J. Numer. Anal.*, **13** (1976), 753–760.

[47] I. H. Sloan, Three-body collisions involving breakup, Momentum Wave Functions ed. D.W. Devins, AIP Conference Proceedings, (1977), 187–194.

[48] I. H. Sloan, Comment on 'The collocation variational method for solving Fredholm integral equations ... ', *J. Phys. A: Math. Gen.*, **11** (1978), 1195–1197.

[49] I. H. Sloan, On the numerical evaluation of singular integrals, *BIT*, **18** (1978), 91–102.

[50] I. H. Sloan, W. E. Smith, Product integration with the Clenshaw-Curtis and related points: convergence properties, *Numer. Math.*, **30** (1978), 415–428.

[51] I. G. Graham, I. H. Sloan, On the compactness of certain integral operators, *J. Math. Anal. and Appl.*, **68** (1979), 580–594.

[52] I. H. Sloan, Fredholm equations of the second kind by product integration via polynomial interpolation, *Notices of the Amer. Math. Soc.*, **26**A- (1979), 136.

[53] I. H. Sloan, B. J. Burn, Collocation with polynomials for integral equations of the second kind, *J. Integral Eqns.*, **1** (1979), 77–94.

[54] I. H. Sloan, E. S. Noussair, B. J. Burn, Projection methods for equations of the second kind, *J. Mathematical Analysis and Applications*, **69** (1979), 84–103.

[55] I. H. Sloan. A review of numerical methods for Fredholm equations of the second kind. in The Application and Numerical Solution of Integral Equations, eds. R.S. Anderssen, F. de Hoog and M. Lukas, Sijthoff and Noordhoff, Alphen aan den Rijn, 1980, 51–74.

[56] I. H. Sloan, On choosing the points in product integration, *J. Math. Phys.*, **21** (1980), 1032–1039.

[57] I. H. Sloan, The numerical solution of Fredholm equations of the second kind by polynomial interpolation, *J. Integral Eqns.*, **2** (1980), 265–279.

[58] I. H. Sloan, W. E. Smith, Product integration with the Clenshaw-Curtis points: implementation and error estimates, *Numer. Math.*, **34** (1980), 387–401.

[59] W. E. Smith, I. H. Sloan, Product integration rules based on the zeros of Jacobi polynomials, *SIAM J. Numer. Anal.*, **17** (1980), 1–13.

[60] I. H. Sloan, Analysis of general quadrature methods for integral equations of the second kind, *Numer. Math.*, **38** (1981), 263–278.

[61] I. H. Sloan, Comment on 'Failure of the connected kernel method', *Phys. Rev.*, **C23** (1981), 1289–1292.

[62] I. H. Sloan, Mathematical and computational methods, (rapporteur's talk), Nucl. Phys. A353, (1981), 365–374.

[63] I. H. Sloan, Quadrature methods for integral equations of the second kind over infinite intervals, *Math. Comp.*, **36** (1981), 511–523.

[64] I. H. Sloan, Superconvergence and the Galerkin method for integral equations of the second kind, in Treatment of Integral Equations by Numerical Methods, eds. C.T.H. Baker and G.F. Miller, Academic Press, (1982), 197–207.

[65] I. H. Sloan, W. E. Smith, Properties of interpolatory product integration rules, *SIAM J. Numer. Anal.*, **19** (1982), 427–442.

[66] K. E. Atkinson, I. G. Graham, I. H. Sloan, Piecewise continuous collocation for integral equations, *SIAM J. Numer. Anal.*, **20** (1983), 172–186.

[67] I. H. Sloan, Non-polynomial interpolation, *J. Approximation Theory*, **39** (1983), 97–117.

[68] W. E. Smith, I. H. Sloan, A. H. Opie, Product integration over infinite intervals I. Rules based on the zeros of Hermite polynomials, *Math. Comp.*, **40** (1983), 519–535.

[69] P. Rabinowitz, I. H. Sloan, Product integration in the presence of a singularity, *SIAM J. Numer. Anal.*, **21** (1984), 149–166.

[70] I. H. Sloan, Fast convergence of the Galerkin method for integral equations, in Computational Techniques and Applications, CTAC-83, eds, J. Noye and C. Fletcher, North Holland, (1984), 352–358.

[71] I. H. Sloan, Four variants of the Galerkin method for integral equations of the second kind, *IMA J. Numer. Anal.*, **4** (1984), 9–17.

[72] I. H. Sloan, The iterated Galerkin method for integral equations of the second kind, in Miniconference on Operator Theory and Partial Differential Equations, eds. B. Jefferies and A. McIntosh, Proc. of the Centre for Mathematical Analysis, A.N.U., Canberra, 5, (1984), 153–161.

[73] I. H. Sloan, P. J. Kachoyan, Lattices for multiple integration, in Mathematical Programming and Numerical Analysis Workshop, eds. S.-Å. Gustafson and R.S. Womersley, Proc. of the Centre for Mathematical Analysis, A.N.U., Canberra, 6, (1984), 147–165.

[74] P. M. Anselone, I. H. Sloan, Integral equations on the half-line, *J. Integral Equations*, **9 (suppl.)** (1985), 3–23.

[75] I. G. Graham, S. Joe, I. H. Sloan, Iterated Galerkin versus iterated collocation for integral equations of the second kind, *IMA J. Numer. Anal*, **5** (1985), 355–369.

[76] I. H. Sloan, Lattice methods for multiple integration, invited paper at the International Conference on Computational and Applied Mathematics, Leuven 1984, *J. Comp. Appl. Math.*, **12 & 13**, (1985), 131–143.

[77] I. H. Sloan, A. Spence, Wiener-Hopf integral equations: finite-section approximation and projection methods, in Constructive Methods for the Practical Treatment of Integral Equations, eds. G. Hämmerlin and K.-H. Hoffmann, ISNM73, Birkhäuser Verlag, (1985), 256–272.

[78] I. H. Sloan, V. Thomée, Superconvergence of the Galerkin iterates for integral equations of the second kind, *J. Integral Equations*, **9** (1985), 1–23.

[79] S. Joe, I. H. Sloan, On Bateman's method for solving second kind integral equations, *Numer. Math.*, **49** (1986), 499–510.

[80] I. H. Sloan, A. Spence, Integral equations on the half-line: a modified finite-section approximation, *Math. Comp.*, **47** (1986), 589–595.

[81] I. H. Sloan, A. Spence, Projection methods for integral equations on the half-line, *IMA J. Numer. Anal.*, **6** (1986), 153–172.

[82] I. H. Sloan, V. Thomée, Time discretization of an integro-differential equation of parabolic type, *SIAM J. Numer. Anal.*, **23** (1986), 1052–1061.

[83] P. M. Anselone, I. H. Sloan, Numerical solution of integral equations on the half line I. The compact case, *Numer. Math.*, **51** (1987), 599–614.

[84] F. R. De Hoog, I. H. Sloan, The finite-section approximation for integral equations on the half-line, *J. Austral. Math. Soc. Series B*, **28** (1987), 415–434.

[85] S. Kumar, I. H. Sloan, A new collocation-type method for Hammerstein integral equations, *Math. Comp.*, **48** (1987), 585–593.

[86] I. H. Sloan, P. J. Kachoyan, Lattice methods for multiple integration: theory, error analysis and examples, *SIAM J. Numer. Anal.*, **24** (1987), 116–128.

[87] I. H. Sloan, T. R. Osborn, Multiple integration over bounded and unbounded regions, *J. Comp. Appl. Math.*, **17** (1987), 181–196.

[88] I. H. Sloan, T. R. Osborn. Multiple integration over bounded and unbounded regions. reprinted in Numerical Quadrature, eds. R. Piessens and M. Mori, North-Holland, 1987, 1–22.

[89] P. M. Anselone, I. H. Sloan, Numerical solution of integral equations on the half line II. The Wiener-Hopf case, *J. Integral Eqns. and Applications*, **1** (1988), 203–225.

[90] I. H. Sloan, A quadrature based approach to improving the collocation method, *Numer. Math.*, **54** (1988), 41–56.

[91] I. H. Sloan, Superconvergence in the collocation and qualocation methods, ICNM88: Numerical Mathematics, Singapore 1988, ed R. Agarwal, Birkhäuser Verlag, (1988), 429–441.

[92] I. H. Sloan, A. Spence, Galerkin method for integral equations of the first kind with logarithmic kernel: theory, *I.M.A. J. Numer. Anal.*, **8** (1988), 105–122.

[93] I. H. Sloan, A. Spence, The Galerkin method for integral equations of the first kind with logarithmic kernel: applications, *I.M.A. J. Numer. Anal.*, **8** (1988), 123–140.

[94] I. H. Sloan, L. Walsh, Lattice rules — classification and searches, in Numerical Integration III, eds. H. Brass and G. Hämmerlin, ISNM 85, Birkhäuser Verlag, (1988), 251–260.

[95] Y. Yan, I. H. Sloan, On integral equations of the first kind with logarithmic kernels, *J. Integral Eqns. and Applications*, **1** (1988), 549–579.

[96] S. Amini, I. H. Sloan, Collocation methods for second kind integral equations with non-compact operators, *J. Integral Equations Appl.*, **2** (1989), 1–30.

[97] J. N. Lyness, I. H. Sloan, Some properties of rank - 2 lattice rules, *Math. Comp.*, **53** (1989), 627–637.

[98] I. H. Sloan, J. N. Lyness, The representation of lattice quadrature rules as multiple sums, *Math. Comp.*, **52** (1989), 81–94.

[99] I. H. Sloan, W. L. Wendland, A quadrature-based approach to improving the collocation method for splines of even degree, *Zeitschrift fur Analysis und ihre Anwendungen. Invited contribution to special volume to celebrate the 80th birthday of S.G. Micklin*, **8** (1989), 361–376.

[100] Y. Yan, I. H. Sloan, Mesh grading for integral equations of the first kind with logarithmic kernel, *SIAM J. Numer. Anal.*, **26** (1989), 574–587.

[101] P. M. Anselone, I. H. Sloan, Spectral Approximations for Wiener-Hopf Operators, *J. Integral Equations and Applications*, **2** (1990), 237–261.

[102] G. A. Chandler, I. H. Sloan, Spline qualocation methods for boundary integral equations, *Numer. Math.*, **58** (1990), 537–567.

[103] Q. Lin, I. H. Sloan, R. Xie, Extrapolation of the iterated collocation method for integral equations of the second kind, *SIAM J. Numer. Anal.*, **27** (1990), 1535–1541.

[104] H. Niederreiter, I. H. Sloan, Lattice rules for multiple integration and discrepancy, *Math. Comp.*, **54** (1990), 303–312.

[105] I. H. Sloan. Superconvergence, in Numerical Solution of Integral Equations. ed. M. Golberg, Plenum Press, 1990, 35–70.

[106] I. H. Sloan, J. N. Lyness, Lattice rules: projection regularity and unique representations, *Math. Comp.*, **54** (1990), 649–660.

[107] I. H. Sloan, L. Walsh, A computer search of rank-2 lattice rules for multidimensional quadrature, *Math. Comp.*, **54** (1990), 281–302.

[108] K. E. Atkinson, I. H. Sloan, The numerical solution of first-kind logarithmic-kernel integral equations on smooth open arcs, *Math. Comp.*, **56** (1991), 119–139.

[109] G. Brown, G. A. Chandler, I. H. Sloan, D. C. Wilson, Properties of certain trigonometric series arising in numerical analysis, *J. Math. Anal. & Applications*, **162** (1991), 371–380.

[110] S. A. R. Disney, I. H. Sloan, Error bounds for the method of good lattice points, *Math. Comp.*, **56** (1991), 257–266.

[111] P. M. Anselone, I. H. Sloan, Spectral approximations for Wiener–Hopf operators II, *J. Integral Eqns. Appl.*, **4 (4)** (1992), 465–489.

[112] S. Prössdorf, I. H. Sloan, Quadrature method for singular integral equations on closed curves, *Numer. Math.*, **61** (1992), 543–559.

[113] J. Saranen, I. H. Sloan, Quadrature methods for logarithmic-kernel integral equations on closed curves, *IMA J. Numer. Anal.*, **12** (1992), 167–187.

[114] S. A. R. Disney, I. H. Sloan, Lattice integration rules of maximal rank formed by copying rank 1 rules, *SIAM J. Numer. Anal.*, **29** (1992), 566–577.

[115] S. Joe, I. H. Sloan, Imbedded lattice rules for multidimensional integration, *SIAM J. Numer. Anal.*, **29**(4) (1992), 1119–1135.

[116] S. Joe, I. H. Sloan, On computing the lattice rule criterion R, *Math. Comp.*, **59** (1992), 557–568.

[117] J. F. Price, I. H. Sloan, Pointwise convergence of multiple Fourier series: sufficient conditions and an application to numerical integration, *J. Math. Anal. and Applic.*, **169** (1992), 140–156.

[118] I. H. Sloan. Error analysis of boundary integral methods. *Acta Numerica,* **1**, 1992, 287–339.

[119] I. H. Sloan, Numerical integration in high dimensions — the lattice rule approach, in Numerical Integration, ed. T.O. Espelid & A. Genz, Kluwer, (1992), 55–69.

[120] I. H. Sloan, Unconventional methods for boundary integral equations in the plane, in Numerical Analysis 1991, ed. D.F. Griffiths & G.A. Watson, Longman Scientific and Technical, (1992), 194–218.

[121] I. H. Sloan, B. J. Burn, An unconventional quadrature method for logarithmic-kernel integral equations on closed curves, *J. Integral Equations Appl.*, **4** (1992), 117–151.

[122] I. H. Sloan, E. Stephan, Collocation with Chebyshev polynomials for Symm's integral equation on an interval, *J. Aust. Math. Soc. Series B*, **34** (1992), 199–211.

[123] H. Niederreiter, I. H. Sloan, Quasi-Monte Carlo methods with modified vertex weights, in 'Numerical Integration IV', ISNM 112 (Ed. H. Brass and G. Hämmerlin), Birkhäuser, Basel, (1993), 253–265.

[124] S. Prössdorf, J. Saranen, I. H. Sloan, A discrete method for the logarithmic-kernel integral equation on an open arc, *J. Austral. Math. Soc. Ser. B*, **34** (1993), 401–418.

[125] S. Joe, I. H. Sloan, Implementation of a lattice method for numerical multiple integration, *ACM Trans. Mathematical Software*, **19** (1993), 523–545.

[126] R. Kress, I. H. Sloan, On the numerical solution of a logarithmic integral equation of the first kind for the Helmholtz equation, *Numer. Math.*, **66** (1993), 199–214.

[127] I. H. Sloan, Review of 'Random Number Generation and Quasi-Monte Carlo Methods', by H. Niederreiter, *SIAM Rev.*, **35(4)** (1993), 680–681.

[128] I. H. Sloan, D. Tran, G. Fairweather, A fourth-order cubic spline method for linear second-order two-point boundary value problems, *IMA J. Numer. Anal.*, **13** (1993), 591–607.

[129] H. Niederreiter, I. H. Sloan, Integration of nonperiodic functions of two variables by Fibonacci lattice rules, *J. Comp. and Applied Math.*, **51** (1994), 57–70.

[130] W. McLean, I. H. Sloan, A fully-discrete and symmetric boundary element method, *IMA J. Numer. Anal.*, **14** (1994), 311–345.

[131] I. H. Sloan, S. Joe. *Lattice Methods for Multiple Integration.* Oxford University Press, 1994.

[132] C. Schwab, I. H. Sloan, Review of 'Cubature formulas and modern analysis: an introduction, by S.L. Sobolev, *Math. Comp.*, **64** (1995), 1761–1763.

[133] I. H. Sloan. Boundary element methods. In 'Theory and Numerics of Ordinary and Partial Differential Equations', (Ed. M. Ainsworth, J. Levesley, W.A. Light and M. Marletta) Clarendon Press, Oxford, 1995, 143–180.

[134] I. H. Sloan, Lattice rules of moderate order, Proc. Workshop on Quasi-Monte Carlo Methods and Their Applications, eds. K.-T. Fang and F.J. Hickernell, Statistics Research and Consultancy Unit, Hong Kong Baptist University, (1995), 147–153.

[135] I. H. Sloan, Polynomial interpolation and hyperinterpolation over general regions, *J. Approx. Theory*, **83** (1995), 238–254.

[136] J. Elschner, S. Prössdorf, I. H. Sloan, The qualocation method for Symm's integral equation on a polygon, *Math. Nachr. (Special Issue dedicated to S.G. Mikhlin)*, **177** (1996), 81–108.

[137] R. D. Grigorieff, I. H. Sloan, High-order Spline Petrov-Galerkin Methods with Quadrature, Proceedings of the International Congress on Industrial and Applied Mathematics, Hamburg, 1995, eds. G. Alefeld et al., ZAMM **76** Suppl. 1, (1996), 15–18.

[138] R. D. Grigorieff, I. H. Sloan, Spline Petrov-Galerkin methods with quadrature, *Num. Funct. Anal. Optim.*, **17** (1996), 755–784.

[139] Ch Lubich, I. H. Sloan, V. Thomée, Nonsmooth data error estimates for approximations of an evolution equation with a positive type memory term, *Math. Comp.*, **65** (1996), 1–17.

[140] H. Niederreiter, I. H. Sloan, Variants of the Koksma-Hlawka inequality for vertex-modified quasi-Monte Carlo integration rules, *Mathl. Comput. Modelling, Special Issue on Monte Carlo and Quasi-Monte Carlo methods, Mathematical & Computer Modelling*, **23** (1996), 69–77.

[141] A. H. Schatz, I. H. Sloan, L. B. Wahlbin, Superconvergence in finite element methods and meshes that are locally symmetric with respect to a point, *SIAM J. Numer. Anal.*, **33** (1996), 505–521.

[142] R. Cools, I. H. Sloan, Minimal cubature formulae of trigonometric degree, *Math. Comp.*, **65** (1996), 1583–1600.

[143] S. Wang, I. H. Sloan, D. W. Kelly, Pointwise a posteriori upper bounds for derivatives of a Neumann problem, in 'Computational Techniques and Applications: CTAC95', (Ed. R.L. May and A.K. Easton), World Scientific, Singapore, (1996), 771–778.

[144] M. Ainsworth, D. W. Kelly, I. H. Sloan, S. Wang, Post-processing with computable error bounds for finite element approximation of a nonlinear heat conduction equation, *IMA J. Numer. Anal.*, **17** (1997), 547–561.

[145] J. Elschner, Y. Jeon, I. H. Sloan, E. Stephan, The collocation method for mixed boundary value problems on domains with curved polygonal boundaries, *Numerische Mathematik*, **76** (1997), 355–381.

[146] R. D. Grigorieff, I. H. Sloan, Galerkin approximation with quadrature for the screen problem in $\mathbb{R}^3$, *J. Integral Equations Appl.*, **9** (1997), 293–319.

[147] J. N. Lyness, I. H. Sloan, Cubature rules of prescribed merit, *SIAM J. Numer. Anal.*, **34** (1997), 586–602.

[148] G. Monegato, I. H. Sloan, Numerical solution of the generalized airfoil equation for an airfoil with a flap, *SIAM J. Numer. Anal.*, **34** (1997), 2288–2305.

[149] E. Novak, I. H. Sloan, H. Woźniakowski, Tractability of tensor product linear operators, *J. Complexity*, **13** (1997), 387–418.

[150] T. Cao, D. W. Kelly, I. H. Sloan, Post-processing for pointwise local error bounds for derivatives in finite element solutions, Proc. of NAFEMS World Congress 97, Stuttgart, Germany, 9-11 April 1997, (1997), 25–36.

[151] Y. Jeon, I. H. Sloan, E. Stephan, J. Elschner, Discrete qualocation methods for logarithmic-kernel integral equations on a piecewise smooth boundary, *Advances Comp. Math.*, **7** (1997), 547–571.

[152] A. V. Reztsov, I. H. Sloan, On 2D packings of cubes in the torus, *Proc. Amer. Math. Soc.*, **125** (1997), 17–26.

[153] I. H. Sloan. Interpolation and hyperinterpolation on the sphere. in 'Multivariate approximation: recent trends and results', (Ed. W. Haussmann, K. Jetter and M. Reimer, Akademia Verlag, Berlin), 1997, 255–268.

[154] I. H. Sloan, Review of 'Integral Equations: Theory and Numerical Treatment' by Wolfgang Hackbusch, *SIAM Rev.*, **39** (1997), 360.

[155] I. H. Sloan, K. E. Atkinson, Semi-discrete Galerkin methods for the single layer equation on Lipschitz Curves, *J. Integral Equations Appl.*, **9** (1997), 279–292.

[156] I. H. Sloan, H. Woźniakowski, An intractability result for multiple integration, *Math. Comp.*, **66** (1997), 1119–1124.

[157] M. Ainsworth, R. D. Grigorieff, I. H. Sloan, Semi-discrete Galerkin approximation of the single layer equation by general splines, *Numer. Math.*, **79** (1998), 157–174.

[158] R. D. Grigorieff, I. H. Sloan, Stability of discrete orthogonal projections for continuous splines on L_p spaces, *Bull. Austral. Math. Soc.*, **58** (1998), 307–332.

[159] R. Kress, I. H. Sloan, F. Stenger, A sinc quadrature method for the double-layer integral equation in planar domains with corners, *J. Integr. Eqn & Appl.*, **10** (1998), 291–317.

[160] I. H. Sloan, W. Wendland, Qualocation methods for elliptic boundary integral equations, *Numer. Math.*, **79** (1998), 451–483.

[161] I. H. Sloan, H. Woźniakowski, When are Quasi-Monte Carlo algorithms efficient for high-dimensional integrals?, *J. Complexity*, **14** (1998), 1–33.

[162] T. Tran, I. H. Sloan, Tolerant qualocation — a qualocation method for boundary integral equations with reduced regularity requirement, *J. Integral Equations Appl.*, **10** (1998), 85–115.

[163] S. Wang, I. H. Sloan, D. W. Kelly, Computable error bounds for pointwise derivatives of a Neumann problem, *IMA J. Num. Anal.*, **18** (1998), 251–271.

[164] D. Mauersberger, I. H. Sloan. A simplified approach to the semi-discrete Galerkin method for the single-layer equation for a plate, M. Bonnet, A.M. Sändig, W.L. Wendland (eds), *Mathematical Aspects of Boundary Element Methods.* Chapman and Hall, 1999, 178–190.

[165] D. Sheen, I. H. Sloan, V. Thomée, A parallel method for time-discretization of parabolic problems based on contour integral representation and quadrature, *Math. Comp.*, **69** (1999), 177–195.

[166] T. Cao, D. W. Kelly, I. H. Sloan, Local error bounds for post-processed finite element calculations, *Int. J. Num. Meth. Engrg.*, **45** (1999), 1085–1098.

[167] T. Cao, D. W. Kelly, I. H. Sloan, Pointwise error estimates for stress in two dimensional elasticity, in: *Proceedings of ACAM99, The second Australasian congress on Applied Mechanics*, The Institution of Engineers, Australia, (1999).

[168] M. Ganesh, I. H. Sloan, Optimal order spline methods for nonlinear differential and integro-differential equations, *Appl. Numer. Maths.*, **29** (1999), 445–478.

[169] I. H. Sloan, W. Wendland, Commutator properties of periodic splines, *J. Approx. Theory*, **97** (1999), 254–281.

[170] I. H. Sloan, W. L. Wendland, Spline qualocation methods for variable-coefficient elliptic equations on curves, *Numer. Math.*, **83** (1999), 497–533.

[171] I. H. Sloan, H. Woźniakowski, Multiple integrals in many dimensions, Zhongying Chen, Yuesheng Li, Yuesheng Xu, Charles A. Micchelli (eds), *Advances in Computational Mathematics-Proceedings of the Guangzhou International Symposium*, Marcell Dekker, Inc., (1999), 507–516.

[172] I. H. Sloan, R. S. Womersley. The uniform error of hyperinterpolation on the sphere, K. Jetter W. Haussmann, M. Reimer (eds), *Advances in Multivariate Approximation.* Wiley-VCH, 1999, 289–306.

[173] R. D. Grigorieff, I. H. Sloan, J. Brandts, Superapproximation and commutator properties of discrete orthogonal projections for continuous splines, *J. Approximation Theory*, **107** (2000), 244–267.

[174] I. H. Sloan, Multiple integration is intractable but not hopeless, *ANZIAM J.*, **42** (2000), 3–8.

[175] I. H. Sloan, Qualocation, *J. Comp. and Appl. Math., Special Issue, Volume VI*, **125** (2000), 461–478.

[176] I. H. Sloan, R. S. Womersley, Constructive polynomial approximation on the sphere, *J. Approximation Theory*, **103** (2000), 91–118.

[177] I. H. Sloan, R. S. Womersley. The search for good polynomial interpolation points on the sphere, D.F. Griffiths, G.A. Watson (eds), *Numerical Analysis 1999.* CRC Press, 2000, 211–230.

[178] R. D. Grigorieff, I. H. Sloan, On qualocation and collocation methods for singular interal equations with piecewise continuous coefficients, using continuous splines on quasi-uniform meshes, *Operator Theory: Advances and Applications*, **121** (2001), 146–161.

[179] Q. T. Le Gia, I. H. Sloan, The uniform norm of hyperinterpolation on the unit sphere in an arbitrary number of dimensions, *Constructive Approximation*, **17** (2001), 249–265.

[180] I. H. Sloan, H. Woźniakowski, Tractability of multivariate integration for weighted Korobov classes, *J. Complexity*, **17** (2001), 697–721.

[181] I. H. Sloan, A. Reztsov, Component-by-component construction of good lattice rules, *Math. Comp.*, **71**(237) (2001), 263–273.

[182] I. H. Sloan, T. Tran, The tolerant qualocation method for variable-coefficient equations on curves, *J. Integral Eqns. and Applications*, **13** (2001), 73–98.

[183] R. S. Womersley, I. H. Sloan, How good can polynomial interpolation on the sphere be?, *Advances in Computational Mathematics*, **14** (2001), 195–226.

[184] I. G. Graham, I. H. Sloan, Fully discrete spectral boundary integral methods on smooth closed surfaces on $\mathbb{R}^3$, *Numerische Mathematik*, **92** (2002), 289–323.

[185] I. H. Sloan, QMC integration – beating intractability by weighting the coordinate directions, K.-T. Fang, F.J. Hickernell, H. Niederrieter (eds), *Monte Carlo and Quasi-Monte Carlo Methods, 2000*, Springer Verlag, Berlin, (2002), 103–123.

[186] I. H. Sloan, F. Y. Kuo, S. Joe, Constructing randomly shifted lattice rules in weighted Sobolev spaces, *SIAM J. Numer. Anal.*, **40** (2002), 1650–1665.

[187] I. H. Sloan, F. Y. Kuo, S. Joe, On the step-by-step construction of quasi-Monte Carlo integration rules that achieve strong tractability error bounds in weighted Sobolev spaces, *Math. Comp.*, **71** (2002), 1609–1640.

[188] I. H. Sloan, H. Woźniakowski, Tractability of integration in non-periodic and periodic weighted tensor product Hilbert spaces, *J. Complexity*, **18** (2002), 479–499.

[189] I. H. Sloan, R. S. Womersley, Good approximations on the sphere with application to geodesy and the scattering of sound: Invited paper at the 2001 Toyota Conference on Computational Science and Engineering for the 21st Century, Fukuoku, Japan, *J. of Computational and Appl. Maths.*, **149** (2002), 227–237. also in Scientific and Engineering Computations for the 21st Century - Methodologies and Applications, eds. M. Mori, and T. Mitsui, North-Holland (2002).

[190] D. Sheen, I. H. Sloan, V. Thomée, A parallel method for time-discretization of parabolic equations based on Laplace transformation and quadrature, *IMA J. Numerical Analysis*, **23** (2003), 269–299.

[191] F. J. Hickernell, I. H. Sloan, G. W. Wasilkowski, On strong tractability of weighted multivariate integration, *Mathematics of Computation*, **73** (2004), 1903–1911.

[192] F. J. Hickernell, I. H. Sloan, G. W. Wasilkowski, On tractability of weighted integration of certain Banach spaces of functions, H. Niederreiter (ed), *Monte Carlo and Quasi-Monte Carlo Methods 2002*, National University of Singapore. Springer-Verlag, Berlin, (2004), 51–71.

[193] F. J. Hickernell, I. H. Sloan, G. W. Wasilkowski, On tractability of weighted integration over bounded and unbounded regions in $\mathbb{R}^s$, *Mathematics of Computation*, **73** (2004), 1885–1901.

[194] F. J. Hickernell, I. H. Sloan, G. W. Wasilkowski, The strong tractability of multivariate integration using lattice rules, H. Niederreiter (ed), *Monte Carlo and Quasi-Monte Carlo Methods 2002*, Springer-Verlag, Berlin, (2004), 259–272.

[195] E. Novak, I. H. Sloan, H. Woźniakowski, Tractability of approximation for weighted Korobov spaces on classical and quantum computers, *Foundations of Computational Mathematics*, **4** (2004), 121–156.

[196] J. Dick, I. H. Sloan, X. Wang, H. Wózniakowski, Liberating the weights, *J. Complexity*, **20** (2004), 593–623.

[197] K. Hesse, I. H. Sloan, High-order numerical integration on the sphere and extremal point systems, *J. Computational Technologies*, **9** (2004), 4–12.

[198] I. H. Sloan, H. Wózniakowski, When does Monte Carlo depend polynomially on the number of variables?, H. Niederreiter (ed), *Monte Carlo and Quasi-Monte Carlo Methods 2002*, National University of Singapore. Springer-Verlag, Berlin, (2004), 407–437.

[199] I. H. Sloan, X. Wang, H. Woźniakowski, Finite-order weights imply tractability of multivariate integration, *J. Complexity*, **20** (2004), 46–74.

[200] I. H. Sloan, R. S. Womersley, Extremal systems of points and numerical integration on the sphere, invited paper for special issue on approximation on the sphere, *Advances in Computational Mathematics*, **21** (2004), 107–125.

[201] X. Wang, I. H. Sloan, J. Dick, On Korobov lattice rules in weighted spaces, *SIAM J. Numer. Anal.*, **42**(4) (2004), 1760–1779.

[202] R. D. Grigorieff, I. H. Sloan, Discrete orthogonal projections on multiple knot periodic splines, *J. Approx. Theory*, **137** (2005), 201–225.

[203] F. J. Hickernell, I. H. Sloan, G. W. Wasilkowski, A piecewise constant algorithm for weighted L_1 approximation over bounded or unbounded regions in $\mathbb{R}^s$, *SIAM Journal on Numerical Analysis*, **43**(3) (2005), 1003–1020.

[204] J. Dick, F. Y. Kuo, F. Pillichshammer, I. H. Sloan, Construction algorithms for polynomial lattice rules for multivariate integration, *Mathematics of Computation*, **74**(252) (2005), 1895–1921.

[205] K. Hesse, I. H. Sloan, Optimal lower bounds for cubature error on the sphere S^2, *J. Complexity*, **21**(6) (2005), 790–803.

[206] K. Hesse, I. H. Sloan. Optimal order integration on the sphere, Tatsien Li, Pingwen Zhang (eds), *Series in Contemporary Applied Mathematics (CAM) in Frontiers and Prospects of Contemporary Applied Mathematics,* Vol.6. Higher Education Press, World Scientific, 2005, 59–70.

[207] K. Hesse, I. H. Sloan, Worst-case errors in a Sobolev space setting for cubature over the space S^2, *Bull. Austral. Math. Soc.*, **71** (2005), 81–105.

[208] F. Y. Kuo, I. H. Sloan, Lifting the curse of dimensionality, *Notices Amer. Math. Soc.*, **52**(11) (2005), 1320–1328.

[209] F. Y. Kuo, I. H. Sloan, Quasi-Monte Carlo methods can be efficient for integration over products of spheres, *J. Complexity*, **21** (2005), 196–210.

[210] W. McLean, I. H. Sloan, V. Thomée, Time discretization via Laplace-transformation of an integro-differential equation of parabolic type, *Numerische Mathematik*, **102**(3) (2005), 497–522.

[211] X. Wang, I. H. Sloan, Why are high-dimension finance problems often of low effective dimension?, *SIAM J. Sci. Computing*, **27**(1) (2005), 159–183.

[212] R. D. Grigorieff, I. H. Sloan, Qualocation for boundary integral equations using splines with multiple knots, *J. Integral Equations and Applications*, **18** (2006), 117–140.

[213] J. Dick, I. H. Sloan, X. Wang, H. Woźniakowski, Good lattice rules in weighted Korobov spaces with general weights, *Numer. Math.*, **103**(1) (2006), 63–97.

[214] K. Hesse, I. H. Sloan, Cubature over the sphere S^2 in Sobolev spaces of arbitary order, *J. Approx. Theory*, **141**(2) (2006), 118–133.

[215] K. Hesse, I. H. Sloan. Hyperinterpolation on the Sphere, N.K. Govil, H.N. Mhaskar, Ram N. Mohapatra, Zuhair Nashed, J. Szabados (eds), *Frontiers in Interpolation and Approximation, dedicated to the memory of Ambikeshwar Sharma*. Chapman & Hall/CRC, 2006, 213–248.

[216] F. Y. Kuo, I. H. Sloan, H. Woźniakowski, Lattice rules for multivariate approximation in the worst case setting, H. Niederreiter, D. Talay (eds), *Monte Carlo and Quasi-Monte Carlo Methods 2004*, (2006), 289–330.

[217] X. Wang, I. H. Sloan, Efficient weighted lattice rules with applications to finance, *SIAM J. Sci. Computing*, **28**(2) (2006), 728–750.

[218] B. J. Waterhouse, F. Y. Kuo, I. H. Sloan, Randomly-shifted lattice rules on the unit cube for unbounded integrands in high dimensions, *J. Complexity*, **22** (2006), 71–101.

[219] M. Ganesh, S. Langdon, I. H. Sloan, Efficient evaluation of highly oscillatory acoustic scattering surface integrals, *Journal of Computational and Applied Mathematics, Special Issue for WAVES'05*, **204**(2) (2007), 363–374.

[220] R. Jeltsch, T. Li, I. H. Sloan. *(eds.) Some Topics in Industrial and Applied Mathematics*. Higher Education Press, 2007.

[221] J. Dick, P. Kritzer, F. Y. Kuo, I. H. Sloan, Lattice-Nyström method for Fredholm integral equations of the second kind with convolution type kernels, *Journal of Complexity*, **23**(4-6) (2007), 752–772.

[222] K. Hesse, H. N. Mhaskar, I. H. Sloan, Quadrature in Besov spaces on the Euclidean sphere, *Journal of Complexity*, **23**(4-6) (2007), 528–552.

[223] K. Hesse, F. Y. Kuo, I. H. Sloan, A component-by-component approach to efficient numerical integration over products of spheres, *J. Complexity*, **23** (2007), 25–51.

[224] F. Y. Kuo, I. H. Sloan, H. Woźniakowski, Periodization strategy may fail in high dimensions, *Numerical Algorithms*, **46**(4) (2007), 369–391.

[225] I. H. Sloan, Finite order integration weights can be dangerous, *Computational Methods of Applied Mathematics*, **7** (2007), 239–254.

[226] X. Wang, I. H. Sloan, Brownian bridge and principal component analysis: towards remaining the curse of dimensionality, *IMA Journal of Numerical Analysis*, **27**(4) (2007), 631–654.

[227] M. Giles, F. Y. Kuo, I. H. Sloan, B. J. Waterhouse, Quasi-Monte Carlo for finance applications, *ANZIAM Journal*, **50** (2008), C308–C323.

[228] F. Y. Kuo, W. T. M. Dunsmuir, I. H. Sloan, M. P. Wand, R. S. Womersley, Quasi-Monte Carlo for highly structured generalised response models, *Methodology and Computing in Applied Probability*, **10**(2) (2008), 239–275.

[229] F. Y. Kuo, I. H. Sloan, H. Woźniakowski, Lattice rule algorithms for multivariate approximation in the average case setting, *J. Complexity*, **24**(2) (2008), 283–323.

[230] I. H. Sloan, A. Sommariva, Approximation on the sphere using radial basis functions plus polynomials, *Advances in Computational Mathematics*, **29** (2008), 147–177.

[231] X. Wang, I. H. Sloan, Low discrepancy sequences in high dimensions: how well are their projections distributed?, *Journal of Computational and Applied Mathematics*, **213**(2) (2008), 366–386.

[232] M. Maggioni, C. Schwab, I. Sloan. *(eds.) Constructive Approximation, (Special Issue on Constructive high-dimensional approximation)*, Vol. 30. Springer, 2009.

[233] E. Novak, I. H. Sloan, J. F. Traub, H. Wozniakowski. *(eds.) Essays on the Complexity of Continuous Problems.* European Mathematical Society, 2009.

[234] Q. T. Le Gia, I. H. Sloan, T. Tran, Overlapping additive Schwartz preconditioners for elliptic PDEs on the unit sphere, *Mathematics of Computation*, **78**(1) (2009), 79–101.

[235] I. Sloan. How high is high-dimensional?, E. Novak, I.H. Sloan, J. F. Traub, H. Wozniakowski (eds), *Essays on the Complexity of Continuous Problems.* European Mathematical Society Publishing House, Switzerland, 2009, 73–87.

[236] I. H. Sloan, R. S. Womersley, A variational characterisation of spherical designs, *Journal of Approximation Theory*, **159**(2) (2009), 308–318.

[237] I.H. Sloan, H. Wendland, Inf-sup condition for spherical polynomials and radial basis functions on spheres, *Mathematics of Computation*, **78**(267) (2009), 1319–1331.

[238] T. Tran, Q.T. Le Gia, I. Sloan, E. Stephan, Boundary integral equations on the sphere with radial basis functions: error analysis, *Applied Numerical Mathematics*, **59**(11) (2009), 2857–27871.

[239] C. An, X. Chen, I. H. Sloan, R. S. Womersley, Well conditioned spherical designs for integration and interpolation on the two-sphere, *SIAM Journal on Numerical Analysis*, **48**(6) (2010), 2135–2157.

[240] M. Griebel, F. Y. Kuo, I. H. Sloan, The smoothing effect of the ANOVA decomposition, *Journal of Complexity*, **26**(5) (2010), 523–551.

[241] K. Hesse, I. H. Sloan, R. S. Womersley. Numerical integration on the sphere, W. Freeden, M. Z. Nashed, T. Sonar (eds), *Handbook of Geomathematics.* Springer, 2010, 1185–1219.

[242] F. Y. Kuo, I. H. Sloan, G. W. Wasilkowski, H. Wozniakowski, Liberating the dimension, *Journal of Complexity*, **26**(5) (2010), 422–454.

[243] F. Y. Kuo, I. H. Sloan, G. W. Wasilkowski, H. Wozniakowski, On decompositions of multivariate functions, *Mathematics of Computation*, **79**(270) (2010), 953–966.

[244] F. Y. Kuo, I. H. Sloan, W. Wasilkowski, B. Waterhouse, Randomly shifted lattice rules with the optimal rate of convergence for unbounded integrands, *Journal of Complexity*, **26**(2) (2010), 135–160.

[245] Q. T. Le Gia, I. H. Sloan, H. Wendland, Multiscale analysis in Sobolev spaces on the sphere, *SIAM Journal on Numerical Analysis*, **48**(6) (2010), 2065–2090.

[246] T. Tran, Q. T. Le Gia, I. H. Sloan, E. P. Stephan, Preconditioners for pseudodifferential equations on the sphere with radial basis functions, *Numerische Mathematik*, **115**(1) (2010), 141–163.

To Appear

[247] M. Ganesh, Q. T. Le Gia, I. Sloan, A pseudospectral quadrature method for Navier-Stokes equations on rotating spheres, *Mathematics of Computation.*

[248] Q. T. Le Gia, I. H. Sloan, A. J. Wathen, Stability and preconditioning for a hybrid approximation on the sphere, *Numerische Mathematik.*