

**CURRICULUM VITÆ**  
**CARL(-WILHELM REINHOLD) de BOOR**

**EDUCATION**

Universität Hamburg                      1956–1959  
Harvard University                        1959–1960  
University of Michigan, Ph.D.        1964–1966  
Chairman of Ph.D. Committee: R.C.F. Bartels

**PROFESSIONAL EXPERIENCE**

Research Assistant to G. Birkhoff	Harvard University	1959–60
Assoc. Sr. Research Mathematician	GM Research Labs.	1960–64
Assistant Prof. of Math. and Comp.Sci.	Purdue University	1966–68
Associate Prof. of Math. and Comp.Sci.	Purdue University	1968–72
Visiting Associate Prof. of Math.	Univ. of Michigan	1970–71
Visiting Staff Member	Los Alamos Labs.	1970–95
Professor of Math. and Comp.Sci.	U. Wisconsin-Madison	1972–83
Member, Mathematics Research Center	U. Wisconsin-Madison	1972–87
P.L. Chebyshev Professor of Mathematics and Computer Science	U. Wisconsin-Madison	1983–2003
Steenbock Professor of Math.Sciences	U. Wisconsin-Madison	1987–2003
Member, Advisory Board	Intern. Math. Statist. Libraries, Inc.	1978–91
Emeritus Professor	U. Wisconsin-Madison	2003–
Affiliated Professor	U. Washington	2004–

**PROFESSIONAL SOCIETIES AND HONORS**

American Mathematical Society 1960–1988, Phi Beta Kappa, Assoc. Comput. Machinery Spec. Int. Group Numer. Math. 1970–1999, Soc. for Industrial and Applied Mathematics.

Invited speaker, Internat. Congr. Mathem., Helsinki, '78; Fairchild Scholar Caltech '85; Fellow of the Amer. Acad. Arts and Sciences '87; Humboldt Research Prize (Humboldt Foundation, Germany) '92; member of the National Academy of Engineering '93; Dr.Sc. h.c., Purdue U., '93; J.v. Neumann Prize, SIAM, '96; member of the National Academy of Sciences '97; member of the Academia Leopoldina (Deutsche Akademie der Naturforscher) '98; foreign member of the Polish Academy of Sciences '00; Dr.Sc. h.c., Technion (Israel), '02; Hildale Award (U. Wisconsin) '02; 2003 National Medal of Science '05; Fellow of SIAM '09; 2008 John Gregory Memorial Award, '11.

**RESEARCH INTERESTS**

Approximation Theory, Numerical Analysis

**VITA**

Born 3 December 1937 in Stolp, Germany; U.S. Citizen; married; four children.

## SELECTED INVITED ADDRESSES

SIAM-SIGNUM Fall Meeting, Austin TX, October 1972. Conference on the *Numerical Solution of Differential Equations*, Dundee, Scotland, July 1973. 2nd Symposium on Approximation Theory, Austin TX, January 18–21, 1976. 745th Meeting of the American Mathematical Society, Evanston IL, April 15–16, 1977. International Congress of Mathematicians, Helsinki, August 15–23, 1978. Rutishauser Symposium, Eidgen.Techn.Hochschule, Zürich, Switzerland, October 15–17, 1980. 1981 Applied Math. Conference, Applied Math. Div. of Australian Math. Soc., Victor Harbor, S.A., February 8–12, 1981. Gatlinburg VIII, Oxford, England, July 6–10, 1981. G.E. Whitney Symposium on *Numerical methods for modeling phenomena*, General Electric, September 29–October 2, 1981. May 9–11, 1983. Scotland, June 28–July 1, 1983. Sino-American Workshop on Approximation Theory, Hangzhou, PRC, May 13–17, 1985. Distinguished Lecture Series, C.S., Purdue U., Apr.4, 1988. US-USSR Approximation Theory Conference, Tampa FL, March 19–24, 1990. Mathematiker-Kongress der DDR 1990, Dresden, East Germany, September 10–14, 1990. 7th Texas Intern.Symp. on Approx.Theory, Austin TX 3–7 Jan 1992. Schwäbisches Mathematik-Kolloquium, 28 June 1993. Samuel D. Conte Distinguished Lecture Series, CS Department, Purdue U., 5 April 1994. SIAM-SEAS conference, Charleston SC, 24–25 March 1995. J. von Neumann Lecture, SIAM annual meeting, 22–26 July 1996. Conference on Numerical Mathematics (celebrating the 60th Birthday of M.J.D. Powell), 27–30 Jul 1996. ILAS-LAA lecture, ILAS annual meeting, May 1998. International Symposium on Computational Sciences (celebrating the contributions of John R. Rice), Purdue U., 21-22 May 1999. Centre of Mathematics for Applications, Oslo, Norway, 1-2 September 2003. 11th Texas Intern.Symp. on Approx.Theory, Gatlinburg TN 18–22 May 2004. 6th Internat. Conf. Mathem. Methods Curves and Surfaces, Tromsø, Norway, 1–6 July 2004. Wavelet Theory and Applications: New Directions and Challenges, 10–14 August 2004, Singapore. Approximation Theory and Probability (honoring Zbigniew Ciesielski's 70th), Będlewo, Poland, 20–24 September 2004. MAIA 2004, Hohenheim, Germany, 13–17 October 2004. Extremal Problems and Approximation (honoring V.M. Tikhomirov's 70th), Moscow, Russia, 16–18 December 2004. International Conference on Applicable Harmonic Analysis, Hangzhou, China, 23–27 May 2005. Constructive Theory of Functions - 2005, Varna, Bulgaria, 1–7 June 2005. MAIA 2007, Ålesund (Norway), 22-26aug07. FoCM 2008, City U., Hongkong, Workshop on Approximation Theory, 20-22jun08. ICASC08: Approximation in Scientific Computing Institute of Software, Chinese Academy of Science, Beijing 27-31oct08. Australia New Zealand Mathematics Convention, Christchurch NZ, 8-12dec08.

## Publications

- 1 (C. de Boor) Bicubic spline interpolation, *J. Math. and Phys.* **41(3)** (1962), 212–218.
- 2 (C. de Boor and J. R. Rice) Chebyshev approximation by  $a \prod (x - r_i)/(x + s_i)$  and application to ADI iteration, *J. SIAM* **11** (1963), 159–169.
- 3 (C. de Boor) Best approximation properties of spline functions of odd degree, *J. Math. Mech.* **12** (1963), 747–750.
- 4 (G. Birkhoff and C. de Boor) Error bounds for spline interpolation, *J. Math. Mech.* **13** (1964), 827–835.
- 5 (C. de Boor and J. R. Rice) Tensor products and commutative matrices, *J. SIAM* **12** (1964), 892–896.
- 6 (G. Birkhoff and C. R. de Boor) Piecewise polynomial interpolation and approximation, in “*Approximation of Functions*”, (H. L. Garabedian, ed), Elsevier, 1965, 164–190.
- 7 (C. de Boor and R. E. Lynch) On splines and their minimum properties, *J. Math. Mech.* **15** (1966), 953–969.
- 8 (G. Birkhoff, C. de Boor, B. Swartz, and B. Wendroff) Rayleigh-Ritz approximation by piecewise cubic polynomials, *SIAM J. Numer. Anal.* **3** (1966), 188–203.
- 9 (C. de Boor) *The method of projections as applied to the numerical solution of two point boundary value problems using cubic splines*, dissertation, Univ. Michigan, 1966.
- 10 (C. de Boor) On local spline approximation by moments, *J. Math. Mech.* **17** (1968), 729–735.
- 11a (C. de Boor and J. R. Rice) “Least squares cubic spline approximation I. Fixed knots”, Comp.Sci.Dpt. TR 20, Purdue University, 1968.
- 11b (C. de Boor and J. R. Rice) “Least squares cubic spline approximation II. Variable knots”, Comp.Sci.Dpt. TR 21, Purdue University, 1968.
- 12 (C. de Boor) On uniform approximation by splines, *J. Approx. Theory* **1** (1968), 219–235.
- 13 (C. de Boor) On the convergence of odd-degree spline interpolation, *J. Approx. Theory* **1** (1968), 452–463.
- 14 (C. de Boor) On the approximation by  $\gamma$ -polynomials, in “*Approximation with Special Emphasis on Spline Functions*”, (I. J. Schoenberg, ed), Academic Press, 1969, 157–183.
- 15 (C. de Boor) On writing an automatic integration algorithm, in “*Mathematical Software*”, (J. R. Rice, ed), Academic Press, 1971, 201–209.
- 16 (C. de Boor) CADRE: An algorithm for numerical quadrature, in “*Mathematical Software*”, (J. R. Rice, ed), Academic Press, 1971, 417–449.
- 17 (C. de Boor and G. J. Fix) Spline approximation by quasiinterpolants, *J. Approx. Theory* **8** (1973), 19–45.
- 18 (C. de Boor) On calculating with  $B$ -splines, *J. Approx. Theory* **6** (1972), 50–62.
- 18a (C. de Boor) “Subroutine package for calculating with  $B$ -splines”, Techn.Rep. LA-4728-MS, Los Alamos Sci.Lab, Los Alamos NM, 1971. Published as “Package for calculating with  $B$ -splines”, *SIAM J. Numer. Anal.*, 14, 1977, 441–472.
- 19 (C. de Boor and S. Conte) *Elementary numerical analysis. An algorithmic approach, 2nd edition*, x + 396p, MacGraw-Hill, 1972.

- 20 (C. de Boor and B. Swartz) Collocation at Gaussian points, *SIAM J. Numer. Anal.* **10(4)** (1973), 582–606.
- 21 (C. de Boor) Good approximation by splines with variable knots, in “*Spline Functions and Approximation Theory, ISNM 21*”, (A. Meir and A. Sharma, eds), Birkhäuser Verlag, 1973, 57–72.
- 22 (C. de Boor) Appendix to ‘Splines and histograms’ by I. J. Schoenberg, in “*Spline Functions and Approximation Theory, ISNM 21*”, (A. Meir and A. Sharma, eds), Birkhäuser Verlag, 1973, 329–358.
- 23 (C. de Boor and I. J. Schoenberg) Unique prime factorization and lattice points, *Math. Mag.* **46** (1973), 198–203.
- 24 (C. de Boor) The quasi-interpolant as a tool in elementary polynomial spline theory, in “*Approximation Theory*”, (G. G. Lorentz *et al.*, eds), Academic Press, 1973, 269–276.
- 25 (C. de Boor) Package for calculating with B-splines, *SIAM J. Numer. Anal.* **14** (1977), 441–472.
- 26 (C. de Boor and J. W. Daniel) Splines with nonnegative  $B$ -spline coefficients, *Math. Comp.* **28** (1974), 565–568.
- 27 (C. de Boor) Bounding the error in spline interpolation, *SIAM Review* **16** (1974), 531–544.
- 28 (C. de Boor) Good approximation by splines with variable knots. II, in “*Numerical Solution of Differential Equations*”, (G. A. Watson, ed), Springer, 1974, 12–20.
- 29 (C. de Boor) On bounding spline interpolation, *J. Approx. Theory* **14(3)** (1975), 191–203.
- 30 (C. de Boor) Total positivity of the spline collocation matrix, *Indiana Univ. Math. J.* **25** (1976), 541–551.
- 31 (C. de Boor) A remark concerning perfect splines, *Bull. Amer. Math. Soc.* **80** (1974), 724–727.
- 32 (C. de Boor) On cubic spline functions that vanish at all knots, *Advances in Math.* **20** (1976), 1–17.
- 33 (C. de Boor) How small can one make the derivatives of an interpolating function?, *J. Approx. Theory* **13** (1975), 105–116.
- 34 (C. de Boor) On ‘best’ interpolation, *J. Approx. Theory* **16** (1976), 28–42.
- 35 (C. de Boor) *Polynomial spline functions and extensions*, xxx, 19xx.
- 36 (C. de Boor) A smooth and local interpolant with ‘small’  $k$ -th derivative, in “*Numerical Solutions of Boundary Value Problems for Ordinary Differential Equations*”, (A. Aziz, ed), Academic Press, 1975, 177–197.
- 37 (C. de Boor) Quadratic spline interpolation and the sharpness of Lebesgue’s inequality, *J. Approx. Theory* **17** (1976), 348–358.
- 38 (C. de Boor) On the cardinal spline interpolant to  $e^{iut}$ , *SIAM J. Math. Anal.* **7** (1976), 930–941.
- 39 (C. de Boor and I. J. Schoenberg) Cardinal interpolation and spline functions VIII: The Budan-Fourier theorem for splines and applications, in “*Spline Functions, Karlsruhe 1975*”, (K. Böhmer, G. Meinardus, and W. Schempp, eds), Lecture Notes in Math. 501, Springer, 1976, 1–77.

- 40 (C. de Boor, T. Lyche, and L. L. Schumaker) On calculating with B-splines II. Integration, in “*Numerische Methoden der Approximationstheorie Vol. 3, ISNM 30*”, (L. Collatz, G. Meinardus, and H. Werner, eds), Birkhäuser Verlag, 1976, 123–146.
- 41 (C. de Boor) A bound on the  $L_\infty$ -norm of  $L_2$ -approximation by splines in terms of a global mesh ratio, *Math. Comp.* **30** (1976), 765–771.
- 42 (C. de Boor) On local linear functionals which vanish at all B-splines but one, in “*Theory of Approximation with Applications*”, (A. G. Law and N. B. Sahney, eds), Academic Press, 1976, 120–145.
- 43 (C. de Boor and A. Pinkus) Backward error analysis for totally positive linear systems, *Numer. Math.* **27** (1977), 485–490.
- 44 (C. de Boor and B. Swartz) Comments on the comparison of global methods for linear two-point boundary value problems, *Math. Comp.* **31** (1977), 916–921.
- 45 (C. de Boor) Splines as linear combinations of B-splines. A survey, in “*Approximation Theory, II*”, (G. G. Lorentz, C. K. Chui, and L. L. Schumaker, eds), Academic Press, 1976, 1–47.
- 46 (C. de Boor and B. Swartz) Piecewise monotone interpolation, *J. Approx. Theory* **21** (1977), 411–416.
- 47 (C. de Boor and Richard Weiss) SOLVEBLOK : A package for solving almost block diagonal linear systems, *ACM Trans. Math. Software* **6** (1980), 80–87.
- 48 (C. de Boor) Odd-degree spline interpolation at a biinfinite knot sequence, in “*Quantitative Approximation*”, (R. Schaback and K. Scherer, eds), Lecture Notes 556, Springer, 1976, 30–53.
- 49 (C. de Boor) Computational aspects of optimal recovery, in “*Optimal Estimation in Approximation Theory*”, (C. Micchelli and T. Rivlin, eds), Plenum, 1977, 69–91.
- 50 (C. de Boor and G. H. Golub) The numerically stable reconstruction of a Jacobi matrix from spectral data, *Linear Algebra Appl.* **21** (1978), 245–260. (reprinted in (Milestones in Matrix Computations, The selected works of Gene H. Golub, with commentaries), Raymond H. Chan, Chen Greif and Dianne O’Leary (eds), Oxford University Press (Oxford, England), 2007)
- 51 (C. de Boor and A. Pinkus) Proof of the conjectures of Bernstein and Erdős concerning the optimal nodes for polynomial interpolation, *J. Approx. Theory* **24** (1978), 289–303.
- 52 (C. de Boor and J. R. Rice) An adaptive algorithm for multivariate approximation giving optimal convergence rates, *J. Approx. Theory* **25** (1979), 337–359.
- 53 (C. de Boor) Efficient computer manipulation of tensor products, *ACM Trans. Math. Software* **5** (1979), 173–182. *Corrigenda*: 525.
- 54 (C. de Boor) A comment on ‘Numerical comparisons of algorithms for polynomial and rational multivariate approximations’, *SIAM J. Numer. Anal.* **15** (1978), 1208–1211.
- 55 (C. de Boor) The approximation of functions and linear functionals: Best vs. good approximation, in “*Proceedings of Symposia in Applied Mathematics 22*”, (G. H. Golub and J. Olinger, eds), AMS, 1978, 53–70.
- 56 (C. de Boor and B. Swartz) Collocation approximation to eigenvalues of an ordinary differential equation: The principle of the thing, *Math. Comp.* **35** (1980), 679–694.
- 57 (C. de Boor) *A Practical Guide to Splines*, xvii + 392p, Springer-Verlag, 1978.

- 58 (C. de Boor) Polynomial interpolation, in “*Proceedings International Congress of Mathematicians, Helsinki 1978*”, (xxx, eds), xxx, 1980, 917–922.
- 59 (C. de Boor and Richard Weiss) Algorithm 546 SOLVEBLOK [F4], *ACM Trans. Math. Software* **6** (1980), 88–91.
- 60 (C. de Boor, R. DeVore, and K. Höllig) Mixed norm  $n$ -widths, *Proc. Amer. Math. Soc.* **80(4)** (1980), 577–583.
- 61 (C. de Boor and J. B. Rosser) *Pocket calculator supplement to calculus*, vi + 291p, Addison-Wesley, 1979.
- 62 (C. de Boor) How does Agee’s smoothing method work?, in “*Proceedings of the 1979 Army Numerical Analysis and Computers Conference*”, (xxx, ed), ARO Rept. 79-3, Army Research Office, 1979, 299–302.
- 63 (C. de Boor and S. Conte) *Elementary numerical analysis, 3rd edition*, xii + 428p, McGraw-Hill, 1980.
- 64 (C. de Boor) FFT as nested multiplication, with a twist, *SIAM J. Sci. Statist. Comput.* **1** (1980), 173–178.
- 65 (C. de Boor) Convergence of abstract splines, *J. Approx. Theory* **31** (1981), 80–89.
- 66 (C. de Boor) On a max-norm bound for the least-squares spline approximant, in “*Approximation and Function Spaces*”, (C. Ciesielski, ed), North Holland, 1981, 163–175.
- 67 (C. de Boor) What is the main diagonal of a biinfinite band matrix?, in “*Quantitative Approximation*”, (R. DeVore and K. Scherer, eds), Academic Press, 1980, 11–23.
- 67a (C. de Boor) The numerical calculation of spline approximations on a biinfinite knot sequence, in “*Approximation Theory and Applications*”, (Z. Ziegler, ed), Academic Press, 1981, 13–22.
- 68 (C. de Boor and B. Swartz) Collocation approximation to eigenvalues of an ordinary differential equation: Numerical illustrations, *Math. Comp.* **36** (1981), 1–19.
- 69 (C. de Boor) Dichotomies for band matrices, *SIAM J. Numer. Anal.* **17** (1980), 894–907.
- 70 (C. de Boor and B. Swartz) Local piecewise polynomial projection methods for an O.D.E. which give high-order convergence at knots, *Math. Comp.* **36** (1981), 21–33.
- 71 (C. de Boor) The inverse of a totally positive bi-infinite band matrix, *Trans. Amer. Math. Soc.* **274** (1982), 45–58.
- 72 (C. de Boor and J. R. Rice) Extremal polynomials with application to Richardson iteration for indefinite linear systems, *SIAM J. Sci. Statist. Comput.* **3** (1982), 47–57.
- 73 (C. de Boor and A. Pinkus) The approximation of a totally positive band matrix by a strictly totally positive one, *Linear Algebra Appl.* **42** (1982), 81–98.
- 73a (C. de Boor and A. Pinkus) “A factorization of totally positive band matrices”, MRC Tech. Summ. Rpt. 2163, 1981.
- 74 (C. de Boor, S. Friedland, and A. Pinkus) Inverses of infinite sign regular matrices, *Trans. Amer. Math. Soc.* **274** (1982), 59–68.
- 75 (C. de Boor) “Smooth and rough interpolation”, Res.Rep. 81-03, Seminar für Angew. Math., ETH, Zürich, 1981.
- 76 (C. de Boor and R. DeVore) Approximation by smooth multivariate splines, *Trans. Amer. Math. Soc.* **276** (1983), 775–788.

- 76a (C. de Boor, R. DeVore, and K. Höllig) Approximation order from smooth bivariate pp functions, in “*Approximation Theory IV*”, (C. Chui, L. Schumaker, and J. Ward, eds), Academic Press, 1983, 353–357.
- 77 (C. de Boor and K. Höllig) Recurrence relations for multivariate B-splines, *Proc. Amer. Math. Soc.* **85** (1982), 397–400.
- 78 (C. de Boor and K. Höllig) B-splines from parallelepipeds, *J. Analyse Math.* **42** (1982/83), 99–115.
- 79 (C. de Boor, Rong-Qing Jia, and A. Pinkus) Structure of invertible (bi)infinite totally positive matrices, *Linear Algebra Appl.* **47** (1982), 41–55.
- 80 (C. de Boor, F. de Hoog, and H. B. de Keller) Stability of one-step schemes for first-order two-point boundary value problems, *SIAM J. Numer. Anal.* **20** (1983), 1139–1146.
- 81 (C. de Boor) Topics in multivariate approximation theory, in “*Topics in Numerical Analysis*”, (P. Turner, ed), Lecture Notes 965, Springer, 1982, 39–78.
- 82 (C. de Boor and K. Höllig) Approximation order from bivariate  $C^1$ -cubics: a counterexample, *Proc. Amer. Math. Soc.* **87** (1983), 649–655.
- 83 (C. de Boor and K. Höllig) Bivariate box splines and smooth pp functions on a three direction mesh, *J. Comput. Appl. Math.* **9** (1983), 13–28.
- 84 (C. de Boor and F. de Hoog) Stability of finite difference schemes for two-point boundary value problems, *SIAM J. Numer. Anal.* **23** (1986), 925–935.
- 85 (C. de Boor, K. Höllig, and S. Riemenschneider) Bivariate cardinal interpolation by splines on a three-direction mesh, *Illinois J. Math.* **29** (1985), 533–566.
- 85a (C. de Boor, K. Höllig, and S. Riemenschneider) Bivariate cardinal interpolation, in “*Approximation Theory IV*”, (C. Chui, L. Schumaker, and J. Ward, eds), Academic Press, 1983, 359–363.
- 86 (C. de Boor) A naive proof of the representation theorem for isotropic, linear asymmetric stress strain relations, *J. of Elasticity* **15** (1985), 225–227.
- 87 (C. de Boor and R. DeVore) A geometric proof of total positivity for spline interpolation, *Math. Comp.* **45** (1985), 497–504.
- 88 (C. de Boor and R. DeVore) Partitions of unity and approximation, *Proc. Amer. Math. Soc.* **93** (1985), 705–709.
- 89 (C. de Boor and E. Saff) Finite sequences of orthogonal polynomials connected by a Jacobi matrix, *Linear Algebra Appl.* **75** (1986), 43–55.
- 90 (C. de Boor, K. Höllig, and S. Riemenschneider) Convergence of bivariate cardinal interpolation, *Constr. Approx.* **1** (1985), 183–193.
- 91 (C. de Boor and Rong-Qing Jia) Controlled approximation and a characterization of the local approximation order, *Proc. Amer. Math. Soc.* **95** (1985), 547–553.
- 92 (C. de Boor, K. Höllig, and S. Riemenschneider) Some qualitative properties of bivariate Euler-Frobenius polynomials, *J. Approx. Theory* **50** (1987), 8–17.
- 93 (C. de Boor and K. Höllig) Minimal support for bivariate splines, *Approx. Theory Appl.* **3** (1987), 11–23.
- 94 (C. de Boor and K. Höllig) Approximation power of smooth bivariate pp functions, *Math. Z.* **197** (1988), 343–363.

- 95 (C. de Boor)  $B$ -form basics, in “*Geometric Modeling: Algorithms and New Trends*”, (G. E. Farin, ed), SIAM Publications, 1987, 131–148.
- 96 (C. de Boor and H.-O. Kreiss) On the condition of linear systems associated with discretized BVPs of ODEs, *SIAM J. Numer. Anal.* **23** (1986), 936–939.
- 97 (C. de Boor, K. Höllig, and S. Riemenschneider) Convergence of cardinal series, *Proc. Amer. Math. Soc.* **98** (1986), 457–460.
- 97a (C. de Boor, K. Höllig, and S. D. Riemenschneider) On bivariate cardinal interpolation, in “*Constructive Function Theory*”, (B. Penkov and D. Vacov, eds), Bulgarian Academy of Sciences, 1972, 254–259.
- 97b (C. de Boor, K. Höllig, and S. Riemenschneider) The limits of multivariate cardinal splines, in “*Multivariate Approximation Theory III, ISNM 75*”, (W. Schempp and K. Zeller, eds), Birkhäuser, 1985, 47–50.
- 98 (C. de Boor and K. Höllig) B-splines without divided differences, in “*Geometric Modeling: Algorithms and New Trends*”, (G. E. Farin, ed), SIAM Publications, 1987, 21–27.
- 99 (C. de Boor) The polynomials in the linear span of integer translates of a compactly supported function, *Constr. Approx.* **3** (1987), 199–208.
- 100 (C. de Boor) Multivariate approximation, in “*State of the Art in Numerical Analysis*”, (A. Iserles and M. Powell, eds), Institute Mathematics Applications, 1987, 87–109.
- 101 (C. de Boor) Cutting corners always works, *Comput. Aided Geom. Design* **4** (1987), 125–131.
- 102 (C. de Boor, K. Höllig, and M. Sabin) High accuracy geometric Hermite interpolation, *Comput. Aided Geom. Design* **4** (1987), 269–278.
- 103 (C. de Boor) The condition of the B-spline basis for polynomials, *SIAM J. Numer. Anal.* **25** (1988), 148–152.
- 104 (C. de Boor, K. Höllig, and S. Riemenschneider) Fundamental solutions for multivariate difference equations, *Amer. J. Math.* **111** (1989), 403–415.
- 105 (C. de Boor) The exact condition of the B-spline basis may be hard to determine, *J. Approx. Theory* **60** (1990), 344–359.
- 106 (C. de Boor) What is a multivariate spline?, in “*Proc. First Intern. Conf. Industr. Applied Math., Paris 1987*”, (J. McKenna and R. Temam, eds), SIAM, 1988, 90–101.
- 107 (C. de Boor) B(asic)-spline basics, in “*Fundamental Developments of Computer-Aided Geometric Modeling*”, (Les Piegl, ed), Academic Press, 1993, 27–49.
- 108 (C. de Boor and K. Höllig) Box-spline tilings, *Amer. Math. Monthly* **98** (1991), 793–802.
- 109 (C. de Boor and A. Ron) On multivariate polynomial interpolation, *Constr. Approx.* **6** (1990), 287–302.
- 109a (C. de Boor and A. Ron) The limit at the origin of a smooth function space, in “*Approximation Theory VI*”, (C. Chui, L. Schumaker, and J. Ward, eds), Academic Press, 1989, 93–96.
- 110 (C. de Boor) A local basis for certain smooth bivariate pp spaces, in “*Multivariate Approximation Theory IV, ISNM 90*”, (C. Chui, W. Schempp, and K. Zeller, eds), Birkhäuser Verlag, 1989, 25–30.

- 111 (C. de Boor) Local corner cutting and the smoothness of the limiting curve, *Comput. Aided Geom. Design* **7** (1990), 389–397.
- 112 (C. de Boor and A. Ron) On polynomial ideals of finite codimension with applications to box spline theory, *J. Math. Anal. Appl.* **158** (1991), 168–193.
- 113 (C. de Boor, N. Dyn, and A. Ron) On two polynomial spaces associated with a box spline, *Pacific J. Math.* **147** (1991), 249–267.
- 114 (C. de Boor and A. Ron) Polynomial ideals and multivariate splines, in “*Multivariate Approximation Theory IV, ISNM 90*”, (C. Chui, W. Schempp, and K. Zeller, eds), Birkhäuser Verlag, 1989, 31–40.
- 115 (C. de Boor) *Spline Toolbox (for use with MATLAB)*, The MathWorks, Inc., 1990.
- 116 (C. de Boor) Quasiinterpolants and approximation power of multivariate splines, in “*Computation of Curves and Surfaces*”, (W. Dahmen, M. Gasca, and C. Micchelli, eds), Kluwer, 1990, 313–345.
- 117 (C. de Boor and A. Ron) The exponentials in the span of the multiinteger translates of a compactly supported function: quasiinterpolation and approximation order, *J. London Math. Soc.(2)* **45** (1992), 519–535.
- 118 (C. de Boor) An empty exercise, *ACM SIGNUM Newsletter* **25(4)** (1990), 2–6.
- 119 (C. de Boor) Polynomial interpolation in several variables, in “*Studies in Computer Science (in Honor of Samuel D. Conte)*”, (R. DeMillo and J. R. Rice, eds), Plenum Press, 1994, 87–119.
- 120 (C. de Boor) An alternative approach to (the teaching of) rank, basis and dimension, *Linear Algebra Appl.* **146** (1991), 221–229.
- 121 (C. de Boor and A. Ron) Computational aspects of polynomial interpolation in several variables, *Math. Comp.* **58** (1992), 705–727.
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