

# A Bibliography of Publications by, and about, Walter Gautschi

Nelson H. F. Beebe  
University of Utah  
Department of Mathematics, 110 LCB  
155 S 1400 E RM 233  
Salt Lake City, UT 84112-0090  
USA

Tel: +1 801 581 5254  
FAX: +1 801 581 4148

E-mail: [beebe@math.utah.edu](mailto:beebe@math.utah.edu), [beebe@acm.org](mailto:beebe@acm.org),  
[beebe@computer.org](mailto:beebe@computer.org) (Internet)  
WWW URL: <https://www.math.utah.edu/~beebe/>

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## Title word cross-reference

**\$24.50** [G.70]. **\$49** [I.91]. **\$69.95** [Ano03].  $\cos(x)/x$  [Gau66a, GK70b].  $e^x/x$  [Gau66a, GK70b].  $f(z)/z$  [Gau66c].  $\int_1^\infty e^{-xt}t^{-n} dt$  [Gau59a].  $n$  [Gau55, Gau59a].  $S$  [GM97].  $\sin(x)/x$  [Gau66a, GK70b].  $W$  [Gau11b].

**-functions** [Gau11b]. **-orthogonality** [GM97]. **-ter** [Gau55]. **-th** [Gau55].

**16** [JW08]. **16-20.07.2007** [JW08]. **1734** [Gau08e]. **1943-1993** [Len97]. **1975** [Ask75]. **1983** [GW84]. **1993** [Zah94b].

**20.07.2007** [JW08]. **221** [Gau64c]. **222** [Gau64a, Gau64d, Gau64e]. **224** [Ano89]. **236** [Gau64b, Gau65b]. **25** [Ano89]. **259** [Gau65a, Jan77]. **282** [Gau66a]. **292** [Gau66b, Gau69e].

**331** [Gau68a]. **363** [Gau69a, Gau69b, Köl72].

**420** [Ell74]. **471** [Gau73a].

**50th** [Gau94b]. **521** [Gau77a]. **542** [Gau79a].

**65th** [Ric94, Won90, Zah94a]. **6th** [JW08].

**7** [Wei95]. **726** [Gau94a, Gau98b]. **793** [Gau99a].

**abstract** [Gau62b]. **accident** [Gau18d]. **ACM** [Gau64b, Gau64a, Gau69a, Gau73a]. **Adaptive** [GG98, GG00]. **advanced** [Ask75]. **Advances** [Gau76]. **aerodynamics** [Gau12b, Gau13a]. **after** [Gau81c, Gau12a]. **agli** [Gau56b]. **Airy** [Gau02b]. **Alexander** [Gau83d, SDGT81]. **Algebra** [Hig94, Gau02c]. **algebraic** [Gau73c, GN88, Gau12b, Gau13a]. **algebraic/logarithmic** [Gau12b, Gau13a]. **Algorithm** [Gau64b, Gau64a, Gau69a, Gau73a, Gau16a, KD71, FG86, PPS18, Ell74, Gau64c, Gau64d, Gau64e, Gau65a, Gau65b, Gau66a, Gau66b, Gau68a, Gau69b, Gau69e, GK70b, Gau77a, Gau79a, Gau94a, Gau98b, Gau99a, Jan77, Köl72, KD71, Sko75]. **Algorithms** [Gau11e]. **always** [Gau93a]. **Anal** [Wei95]. **Analyse** [Gau53a]. **Analysis** [Gau81a, Gol84, Won90, Gau72, Gau72b, Gau97b, Gau97c, Gau02c, Gau10c, GM24, Ste99, SB93, Gau53a, Ano03]. **Analytic** [Gau59b, Gau17b, GV83, GL90]. **Angelitch** [G.70]. **Anniversary** [Gau94b]. **Anomalous** [Gau77b]. **Application** [GM85a, GM85b, Ask75, Gau69c, Gau12b, Gau13a, Qi09]. **Applications** [GGO99, Gau85a, Gau85b, Gau96b]. **Applied** [Ano89, Ano03, Ano98, Gri05b, JW08]. **approach** [KR15]. **appropriate** [Gau54a]. **Approximation** [Ell96, Gau04b, Gau06c, GMR11, FGM87, Gau18a, Zah94b, Seg06]. **approximations** [Gau84a, GM86, Gau02a]. **April** [Ask75]. **Architecture** [Roj94]. **Argument** [Gau62a]. **Arguments** [Gau65a, Jan77]. **Arising** [Gau69d]. **Askey** [Gau18b]. **Aspects** [Gau67a, Gau72a, Gau73b]. **Asymptotic** [Gau53b, Gau53c, Won90]. **asymptotics** [GG08]. **attempt** [Gau08e]. **Attenuation** [Gau72, Gau72b]. **August** [Gau94b]. **Aumann** [G.70].

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[Ano03, Ell96, G.68, G.70, Gau96a, Gau00a, I.91, Len97, Ste99]. **Bose**  
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[Gau01a, Gau17c]. **career** [Gau18d]. **case** [Gau11b]. **Center** [Ask75].

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[QG08, Qi09]. **Complex**

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[Hig94]. **Computation** [Ell96, Gau61b, Gau61c, Gau66c, Gau70a, Gau02b,

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**Conditioned** [Gau75d, Gau11d]. **conditioning** [CGR90]. **conditions**

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**convergence** [Gau77b, Gau83c, Gau92, GL96]. **convergent**

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**coth-kernel** [GKM87]. **Coulomb** [Gau66b, Gau69c, Gau69e]. **coupled**

[XDY16].

**D** [Gau96a]. **D1** [Gau68a]. **Daniel** [Gau08e]. **David** [Gau96a]. **Debate**

[Roj94]. **decaying** [Gau05a]. **December** [Zah94b]. **definite** [FG86].

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**E.** [BF81]. **edge** [BHvdV06]. **edited** [Ell96, Gau96a]. **Edition** [Ano03]. **Editor** [Len97, G.68]. **Efficient** [Gau70a]. **Einstein** [GM85a, GM85b, Gau93b]. **element** [BHvdV06]. **Elementary** [Gau59c]. **elements** [Gau83c]. **empirical** [Gau17b]. **end** [GL90, GL91]. **energy** [XDY16]. **equation** [KR15]. **Equations** [Gau62b, AG62, BHvdV06, Gau55, Gau61a, Gau73c, Gau75e, Gri05b, Gri05a, HL99, XDY16, G.68]. **equazioni** [Gau75e]. **Erratum** [Ano89, Gau13a, Gau17a, Wei95]. **Error** [Gau61c, Gau64f, Gau69a, Gau69b, Gau70a, GV83, XDY16, Gau55, GK70a, Gau75e, Gri05b, Köl72, Wei95, Gau53d]. **estensione** [Gau56b]. **Estimates** [Gau75c, Gau53d, XDY16, Gau75e]. **estremo** [Gau56b]. **Euler** [Fel07, Gau08e, Gau08a, Gau08b]. **Evaluation** [Gau77c, Gau16a, GKM87, Gau08c]. **Excellence** [Lid01]. **exercise** [Gau05b]. **Exercises** [Tow16, Gau16b]. **Expansions** [GHT03]. **Experimental** [Gau11a]. **Explicit** [SW19]. **Exponential** [Gau59a, GC64, Gau73a, GHT03, Gau15, Gau22, Gri05b]. **exponentially** [Gau05a]. **extended** [Gau92, GL96]. **extension** [Gau56b]. **extensions** [Ker83, QG08]. **extreme** [Gau56b].

**F** [G.70]. **factors** [Gau72, Gau72b]. **Family** [GR88]. **February** [Gau08e]. **Fehler** [Gau55]. **Fehlerabschätzungen** [Gau53d]. **Fermi** [GM85a, GM85b, Gau93b]. **Festschrift** [Ell96, Zah94b]. **field** [Pom94]. **finite** [BHvdV06, FGM87]. **First** [Gau64b, Sko75, Gau65b]. **Foreword** [Ric94]. **Form** [Gau79c, FG86]. **Formulae** [CGM86a, CGM86b, Gau81d, GR88, Gau04a, Ano89, Gau83b, GN88, GN89, Gau91c, GN96, GM97, Gau00b, Gau01a, Gau02b, Gau09a, JB09]. **Formulas** [AS64, Gau68a, Gau68b, AG75]. **Fourier** [Gau70c, Gau72, Gau72b]. **fraction** [Gau77b]. **fractions** [Gau83c]. **Frank** [Won90]. **frequency** [SW19]. **Fresnel** [Gau64f]. **Freud** [Gau17b]. **Function** [Gau59c, Gau61c, Gau64a, Gau64f, Gau69a, Gau69b, Gau70a, Gau74a, Gau74b, Gau77a, Gau77c, Gau05d, Gau16a, Alz03, Gau64e, GS78, Gau82b, GW87, Gau05b, GLP98, Ker83, Köl72, Wei95]. **Functions** [AS64, Gau59b, Gau62a, Gau64b, GC64, Gau65a, Gau66b, Gau75a, Gau79a, Gau79b, GM85a, GM85b, Gau99a, Gau99b, Jan77, Sko75, Ano89, Ask75, Gau63b, Gau64c, Gau64d, Gau65b, Gau69c, Gau69e, Gau77b, GV83, GN88,

GN89, GL90, GN96, Gau98a, GGL00, GW01, Gau01b, Gau02b, Gau02a, GHT03, Gau05a, GG08, Gau09a, Gau10b, Gau10c, Gau11b, Gau14, Gau17c, Gau21, Gau22, GM22, Kah6x, QG08, Qi09, BL01].

**G** [G.70]. **Gamma** [Gau59c, Gau74a, Gau74b, Gau79a, Gau79b, Gau99b, Alz03, Gau82b, Gau98a, GHT03, GLP98, Ker83, Gau64c]. **Gatteschi** [GG08]. **Gauss** [Ano89, CGM86a, CGM86b, Gau68b, Gau81d, GN88, GR88, GN89, GTV90, GL90, GL91, Gau94a, GM97, Gau98b, Gau99a, Gau00b, Gau02a, Gau04a, Gau05c, Gau06a, Gau09a, Gau10b, Gau14, Gau16a, JB09, PPS18]. **Gauss-Type** [Gau94a, Gau98b, Gau06a]. **Gaussian** [Gau68a, Gau70b, Gau70c, GV83, Gau83b, GM85a, GM85b, Gau91a, Gau02b, Gau21].

### **Gautschi**

[Ano03, I.91, Len97, Zah94b, Alz03, BHvdV06, BS13, BS14a, BS14b, GLP98, Gri05b, Gri05a, HL99, JB09, Ker83, Kou07, KR15, LR14, QG08, Qi09, Ric94, Seg06, SW19, Ste99, Tow16, XDY16, Zah94a, Zah94c, Ell96]. **Gautschi-type** [Gri05b, Gri05a, HL99, SW19, XDY16]. **Gene** [Gau02c]. **Generalized** [Gau04a, Gau93b, GW01, Gau09a, GM21, JB09]. **Generating** [Gau82a, Gau94a, Gau98b, Kah6x]. **German** [I.91, För82, Gau53a, Gau53d, Gau54b, Gau54a, Gau55, Gau56a, Gau72a]. **Germany** [GGO99]. **gewöhnlicher** [Gau55]. **Gilbert** [Gau96a]. **global** [Gau75e]. **globale** [Gau75e]. **Golub** [Gau02c]. **Gordon** [XDY16]. **GQRAT** [Gau99a]. **Gradimir** [GMR11, Gau11c]. **Grammel** [Gau53d, Gau53d]. **graphical** [Gau53a, Gau53d, Gau54a]. **graphischen** [Gau53d, Gau54a]. **graphischer** [Gau53a]. **Graphs** [AS64]. **Greenspan** [G.68]. **guided** [Gau07].

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**kernel** [GKM87]. **Kershaw** [GLP98, Qi09]. **Kind** [Gau64b, Sko75, Gau65b]. **Klasse** [Gau54b]. **Klein** [XDY16]. **Koeffizienten** [Gau54b]. **konstanten** [Gau54b]. **Kontorovich** [Gau06b]. **Kronrod** [Ano89, CGM86a, CGM86b, GN88, GR88, GN89, Gau05c]. **Kummer** [Gau77b]. **Kunzi** [G.70]. **Kutta** [Gau55, Gau55]. **Kutta-Verfahrens** [Gau55].

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**NBS** [Lid01]. **NBS/NIST** [Lid01]. **nearby** [Gau13b]. **nearly** [FG86]. **necessary** [Gau56b]. **necessary** [Gau56a, Gau56b]. **nei** [Gau75e]. **Neutralizing** [Gau13b]. **ninetieth** [Gau83d]. **NIST** [Lid01]. **no** [Wei95]. **Nonexistence** [Gau75b]. **Nonlinear** [G.68, SW19, XDY16]. **nonstandard** [Gau09d]. **Norm** [Gau75c]. **Note** [Gau59b, GTV90, Gau99b, Kah6x, Gau05c, Gri05a, Gau01a]. **notwendigen** [Gau56a]. **novembre** [Ano98]. **Number** [GI88, Pom94]. **Numer** [Gau11e, Wei95]. **Numerical** [AG62, Gau61a, Gau67b, Gau69d, Gau73b, Gau81a, Gau97b, Gau97c, Gau05d, Gau12b, Gol84, Hig94, I.91, Ste99, Ano03, Gau55, Gau78b, Gau84c, GKM87, Gau95, Gau01b, Gau02c, Gau08c, Gau10c, Gau13b, RG90, SB93, G.68, Gau72a, Gau13a]. **Numerik** [Gau72a]. **numerische** [Gau55].

**Oberwolfach** [GGO99]. **occurring** [Gau91b]. **Olver** [Won90]. **One** [Gau65a, Jan77, Gau56b, Gau75e]. **one-step** [Gau75e]. **only** [Gau62b]. **Optimal** [AG75, För82, GM77, KR15]. **optimalen** [För82]. **Optimally** [Gau75d, Gau11d]. **Order** [Gau62b, Gau55, Gau00b, Gau09a, Gri05b, Gri05a, HL99, SW19]. **Orders** [Gau05d]. **ordinaire** [Gau75e]. **ordinary** [AG62, Gau55, Gau61a, Gau75e]. **Ordnung** [Gau55]. **Orthogonal** [Gau72c, Gau82a, Gau83a, Gau85a, Gau94a, Gau96b, Gau99c, Gau04b, Gau05e, Gau06c, Gau11a, Gau16b, GM21, GM22, FG86, Gau81b, Gau82b, Gau84b, Gau85b, Gau86, Gau89, Gau93a, GZ95, Gau98b, GGO99, Gau05a, Gau09d, Gau13c, Gau15, Gau17c, Gau18e, GH19, Gau22, Seg06, Tow16]. **orthogonality** [GM97]. **ORTHPOL** [Gau94a, Gau98b]. **oscillating** [Gau05a]. **oscillatory** [Gri05b, Gri05a, HL99, SW19]. **Ostrowski**

[Gau83d, SDGT81].

**P** [G.70]. **Package** [Gau94a, Gau98b]. **pages** [Ano03]. **paper** [Gau79d].  
**Parallel** [Gau96a]. **Pastur** [GM21]. **Paul** [Gau01a]. **Perturbation** [Hig94].  
**perturbations** [Gau86]. **Petter** [Gau96a]. **Philip** [Gau95]. **physical** [BF81].  
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**points** [GL90, GL91]. **polynomial** [Gau79d]. **Polynomials**  
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Gau18e, Gau18c, GH19, GM21, Gau22, GM22, Kou07, LR14, Gau17a, Gau19].  
**positive** [FG86]. **Power** [Gau79c]. **Powers** [Gau53b, Gau53c]. **pp**  
[G.70, I.91]. **pp.** [G.68]. **practical** [Gau72, Gau72b]. **preceding** [Gau79d].  
**precision** [Gau09d, Gau11b, Gau14]. **Preface** [GMR01]. **Presence**  
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**probability** [GM21]. **problem** [Gau18a]. **problems**  
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**proceedings** [Ask75, Zah94b]. **processing** [Gau96a]. **Program** [Ell74].  
**Programming** [KD71]. **Progress** [Gau18d]. **propagation** [GK70a].  
**properties** [CGR90, Gau17b]. **Prudnikov** [GM22]. **Publications**  
[Lid01, Zah94c]. **Purdue** [Zah94b].

**Quadratur** [För82]. **Quadrature**  
[CGM86a, CGM86b, Gau67b, Gau68a, Gau68b, Gau70b, Gau81c, Gau81d,  
GM85a, GM85b, GR88, GTV90, Gau91c, Gau94a, Gau99a, GGL00, Gau05d,  
Gau06c, Gau16a, AG75, Ano89, GG98, GG00, Gau70c, Gau76, GV83, Gau83b,  
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**Quadratures** [GY74, Gau75b, För82, GM77, GL91, Gau21]. **Questions**  
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**R** [Ano03, G.70, Gau96a]. **R.** [Ell96, G.70]. **Rabinowitz** [Gau95]. **Radau**  
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[Gau59c]. **relation** [Gau93a]. **Relationen** [Gau72a]. **Relations** [Gau67a, Gau72a, Gau73b, Gau81b]. **relative** [GM21, Gau22, GM22]. **Remainder** [GTV90, GL90]. **Remark** [Ell74, Gau69e, GK70b, Gau98b, Gau11e, Jan77, KD71, Sko75, Gau56a]. **Remarks** [För82]. **Repeated** [Gau61c, Gau77a, Gau77c, Gau13c, Gau16a]. **repository** [Gau18e, Gau21]. **Representation** [GTV90]. **Research** [Ask75, GGO99]. **respect** [Gau82b, Gau05a, Gau15, Gau17c]. **results** [Gau17b]. **Review** [Ano03, G.68, G.70, I.91, Seg06, Gau00a, Tow16]. **Reviews** [Ell96, Gau96a, Len97, Ste99]. **Revisited** [GG98, GG00]. **Robert** [Gau96a]. **Roma** [Ano98]. **Routines** [Gau94a, Gau98b, Gau10b]. **Rule** [GTV90]. **Rules** [Gau70b, Gau94a, Gau70c, GL90, Gau98b, GGL00, Gau06a, Gau14]. **Runge** [Gau55, Gau55]. **Rutishauser** [G.70, I.91].

**S** [Gau96a]. **S13** [Gau73a]. **S14** [Gau79a]. **S15** [Gau69b, Gau77a]. **S16** [Gau65a]. **S17** [Sko75, Gau64b, Gau65b]. **S22** [Gau69e]. **Samelson** [G.70]. **Sauer** [G.70]. **scaled** [Gau11d]. **scheme** [BHvdV06]. **Schreiber** [Gau96a]. **Schrittlänge** [Gau54a]. **sciences** [BF81]. **scientific** [Gau96a]. **Second** [Gau62b, Gri05b, Gri05a, HL99, Qi09, SW19]. **Second-Order** [Gau62b, Gri05b, Gri05a, HL99, SW19]. **Selected** [BS13, Lid01, BS14a, BS14b]. **semicircle** [Gau89]. **seminar** [Ask75]. **sensitivity** [Gau86]. **Series** [GM85a, GM85b, Gau91a, Gau91b, Gau05b]. **several** [FG86]. **sharp** [Gau10a]. **SIAM** [Wei95]. **sieve** [Pom94]. **Simon** [Gau96a]. **simultaneous** [FG86]. **SINC** [Gau01a]. **SINC-** [Gau01a]. **since** [Gau98a]. **singular** [GKM87]. **singularities** [Gau12b, Gau13a, Gau13b]. **Singularity** [Gau67b]. **slowly** [Gau91a, Gau91b, Gau05b]. **Small** [Gau62a]. **Sobolev** [GZ95]. **Software** [Gau06c, Gau18e, Gau21]. **Solutions** [G.68, Gau69c, Gau81b, Gau16b, Tow16]. **Some** [Gau59c, Gau74b, Gau85b, Ker83, Gau84b, Gau11b, Gau18d]. **Sons** [G.68]. **space** [XDY16]. **spaces** [GZ95]. **Special** [Gau75a, Gau08a, Ask75, Gau63b, GG08, Gau10c]. **spectral** [CGR90, XDY16]. **spherically** [Gau84a, GM86]. **spiral** [Gau10c]. **Spline** [GM86, FGM87, Gau17c]. **sponsored** [Ask75]. **Springer** [Ano03, G.70]. **Springer-Verlag** [G.70]. **square** [Gau12b, Gau13a]. **stable** [Gau90, Gau93a]. **Standards** [Lid01]. **Stenger** [GH19]. **step** [Gau54a, Gau75e]. **stepping** [BHvdV06, KR15]. **Stieltjes** [GN96]. **Stime** [Gau75e]. **Stoer** [Ano03, G.70]. **Studies** [Gol84]. **study** [GK70a, GN88, Gau11b]. **Sturm** [LR14]. **Sub** [Gau12c, Gau17b, Gau17a, Gau19]. **Sub-range** [Gau12c, Gau17b, Gau17a, Gau19]. **subrange** [Gau18c]. **Successive** [Gau66c]. **Summation** [GM85a, GM85b, Gau91a]. **Supplement** [CGM86b, GM85b]. **Survey** [Gau75a, Gau81d, Hig94]. **Switzerland** [JW08]. **symmetric** [FG86, Gau84a, GM86]. **Symposium** [Gau94b]. **Systemen** [Gau54b]. **systems** [Gau54b, Gau90]. **Szabo** [G.70]. **Szego** [Ano89, GN89].

**T** [G.70, Gau96a]. **Tables** [AS64, Gau70c]. **Technology** [Lid01]. **ter** [Gau55]. **Term** [Gau67a, GTV90, Gau69c, Gau81b, GL90]. **Texts** [Ano03]. **th** [Gau55]. **their** [Gau91a, Gau06b, GL07, GG08, Gau11b, GM18]. **Theodorus** [Gau10c]. **theorem** [Gau06a, LR14]. **theorems** [Gau06a]. **theoretical** [Gau84b]. **Theory** [Hig94, Gau85a, Gau18a, GH19, Ask75]. **Third** [Ano03]. **Three** [Gau67a, Gau69c, Gau81b]. **Three-Term** [Gau67a, Gau69c, Gau81b]. **time** [BHvdV06, KR15]. **time-stepping** [KR15]. **top** [Gau18a]. **top-down** [Gau18a]. **Torczon** [Gau96a]. **Torino** [Ano98]. **tour** [Gau07]. **Transform** [Gau69d, GW87, GW01]. **transformation** [FG86]. **Transforms** [Gau06b]. **Translated** [Ano03, I.91]. **treatment** [GLP98]. **tribute** [Gau02c]. **Tricomi** [Ano98, Gau98a]. **trigonometric** [Gau61a]. **Tschebyscheff** [För82]. **Tschebyscheff-Typ** [För82]. **Turán** [GM97, Gau14]. **Turán-type** [GM97]. **two** [Gau10b]. **Type** [För82]. **Type** [GY74, Gau75b, Gau94a, AG75, Ano89, För82, GN89, GM97, Gau98b, Gau06a, GM18, GM22, GLP98, Gri05b, Gri05a, HL99, SW19, XDY16, GM77].

**ultraspherical** [Gau18b]. **Ungenauigkeiten** [Gau54a]. **Unified** [GLP98]. **University** [Ask75]. **use** [Gau01b].

**V** [Ell96, Gau96a, GMR11, Gau11c]. **Value** [Gau74b, SW19]. **values** [Gau59a]. **Vancouver** [Gau94b]. **Vandermonde** [CGR90, Gau62c, Gau63a, Gau75c, Gau75d, Gau78a, Gau83a, GI88, Gau90, Gau11d]. **Vandermonde-like** [Gau83a, Gau11d]. **Variable** [Gau09d]. **Variable-precision** [Gau09d]. **variation** [Gau56a]. **Variationsrechnung** [Gau56a]. **Verfahrens** [Gau55]. **Verlag** [G.70]. **via** [LR14]. **Viewpoint** [Roj94]. **Virginia** [Gau96a]. **Volume** [BS13, BS14a, BS14b].

**W** [Ano03, Won90]. **W.** [Ker83]. **Walter** [Ell96, I.91, Seg06, Zah94b, BS13, BS14a, BS14b, Gau11e, Len97, Ric94, Ste99, Zah94a, Zah94c]. **Watson** [Gau96a]. **Wave** [Gau66b, Gau69c, Gau69e, KR15]. **weight** [Ano89, GW87, GN88, GN89, GN96, GW01, Gau05a, Gau09a, Gau10b, Gau14, Gau17c, Gau22, GM22]. **weighted** [AG75]. **Wendel** [QG08]. **Who** [Roj94]. **Wiley** [G.68]. **Wisconsin** [Ask75]. **Wisconsin-Madison** [Ask75]. **Witzgall** [Ano03]. **Work** [Gau81c, BF81, Gau95, GG08]. **Works** [BS13, Gau08b, BS14a, BS14b, Gau08a].

**x** [G.68]. **xv** [I.91]. **xviv** [G.70].

**York** [Ano03, G.68]. **Yudell** [GW84].

**Zahar** [Ell96]. **zeichnerischen** [Gau54a]. **zero** [Gau08d]. **Zeros** [Gau87, Gau89, GL07, GG08, Gau09c, Gau09b, Gau11e, Gau17b, GM18, Gau18b, Gau18c, LR14]. **zur** [För82, Gau72a]. **Zürich** [JW08]. **zweckmässige** [Gau54a].

## References

**Antosiewicz:1962:NMO**

- [AG62] Henry A. Antosiewicz and Walter Gautschi. Numerical methods in ordinary differential equations. In *Survey of numerical analysis*, pages 314–346. McGraw-Hill, New York, 1962.

**Anderson:1975:OWC**

- [AG75] L. A. Anderson and W. Gautschi. Optimal weighted Chebyshev-type quadrature formulas. *Calcolo: a quarterly on numerical analysis and theory of computation*, 12(3):211–248, 1975. CODEN CALOBK. ISSN 0008-0624 (print), 1126-5434 (electronic).

**Alzer:2003:GHM**

- [Alz03] Horst Alzer. On Gautschi’s harmonic mean inequality for the gamma function. *Journal of Computational and Applied Mathematics*, 157(1):243–249, August 1, 2003. CODEN JCAMDI. ISSN 0377-0427 (print), 1879-1778 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0377042703004564>.

**Anonymous:1989:EGK**

- [Ano89] Anonymous. Erratum: Gauss–Kronrod quadrature formulae for weight functions of Bernstein–Szegő type: *Journal of Computational and Applied Mathematics* **25** (2) (1989) 199–224. *Journal of Computational and Applied Mathematics*, 27(3):429, November 1989. CODEN JCAMDI. ISSN 0377-0427 (print), 1879-1778 (electronic). URL <http://www.sciencedirect.com/science/article/pii/0377042789900289>. See [GN89].

**Anonymous:1998:TIC**

- [Ano98] Anonymous, editor. *Tricomi’s ideas and contemporary applied mathematics: (Roma, 28–29 novembre — Torino, 1–2 dicembre 1997)*, volume 147 of *Atti dei convegni Lincei*. Accademia Nazionale dei Lincei, Roma, Italy, 1998. ISSN 0391-805X. LCCN QA299.6.

**Anonymous:2003:BRIC**

- [Ano03] Anonymous. Book review: *Introduction to numerical analysis*, Texts in Applied Mathematics 12: Third Edition. By J. Stoer and R. Bulirsch. Translated by R. Bartels, W. Gautschi, and C. Witzgall. Springer, New York. (2002). 744 pages. \$69.95. *Computers and Mathematics with Applications*, 46(2–3):509–510, July/August 2003. CODEN CMAPDK. ISSN 0898-1221 (print),

1873-7668 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0898122103900587>.

**Abramowitz:1964:HMF**

- [AS64] Milton Abramowitz and Irene A. Stegun, editors. *Handbook of Mathematical Functions with Formulas, Graphs, and Mathematical Tables*, volume 55 of *Applied mathematics series*. U. S. Department of Commerce, Washington, DC, USA, 1964. xiv + 1046 pp. LCCN QA47.A161 1972; QA 55 A16h 1972. Tenth printing, with corrections (December 1972). This book is also available online at <http://www.convertit.com/Go/ConvertIt/Reference/AMS55.ASP> in bitmap image format.

**Askey:1975:TAS**

- [Ask75] Richard Askey, editor. *Theory and application of special functions: proceedings of an advanced seminar sponsored by the Mathematics Research Center, the University of Wisconsin-Madison, March 31–April 2, 1975*, number 35 in Publication of the Mathematics Research Center, the University of Wisconsin. Academic Press, New York, NY, USA, 1975. ISBN 0-12-064850-4. LCCN QA3 .U45 no. 35 QA351.

**Butzer:1981:BCI**

- [BF81] Paul Leo Butzer and F. (Franziska) Fehér, editors. *E. B. Christoffel, the influence of his work on mathematics and the physical sciences*. Birkhäuser, Cambridge, MA, USA; Berlin, Germany; Basel, Switzerland, 1981. ISBN 3-7643-1162-2. LCCN QA7 I57 1981; QA 7 .I57 1981; QA76 .I556 1981. URL <https://link.springer.com/book/10.1007/978-3-0348-5452-8>.

**Botchev:2006:GTS**

- [BHvdV06] M. A. Botchev, D. Harutyunyan, and J. J. W. van der Vegt. The Gautschi time stepping scheme for edge finite element discretizations of the Maxwell equations. *Journal of Computational Physics*, 216(2):654–686, August 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000052>.

**Boisvert:2001:HMF**

- [BL01] Ronald F. Boisvert and Daniel W. Lozier. *Handbook of Mathematical Functions*. In Lide [Lid01], pages 135–139. URL <https://nvlpubs.nist.gov/nistpubs/sp958-lide/135->

139.pdf; <https://nvlpubs.nist.gov/nistpubs/sp958-lide/html/135-139.html>. NIST Special Publication.

**Brezinski:2013:WGV**

- [BS13] Claude Brezinski and Ahmed Sameh. *Walter Gautschi, Volume 1: Selected Works with Commentaries*. Contemporary Mathematicians. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 2013. ISBN 1-4614-7033-1, 1-4614-7034-X. xi + 694 + 50 pp. LCCN QA297. URL <http://site.ebrary.com/id/10787871>.

**Brezinski:2014:WGVa**

- [BS14a] Claude Brezinski and Ahmed Sameh, editors. *Walter Gautschi. Volume 2: selected works with commentaries*. Contemporary mathematicians. Birkhäuser, Cambridge, MA, USA; Berlin, Germany; Basel, Switzerland, 2014. ISBN 1-4614-7048-X, 1-4614-7049-8 (e-book). xiii + 914 + 33 pp. LCCN QA404.5. URL <http://link.springer.com/10.1007/978-1-4614-7049-6>.

**Brezinski:2014:WGVb**

- [BS14b] Claude Brezinski and Ahmed Sameh, editors. *Walter Gautschi. Volume 3: selected works with commentaries*. Contemporary mathematicians. Birkhäuser, Cambridge, MA, USA; Berlin, Germany; Basel, Switzerland, 2014. ISBN 1-4614-7131-1, 1-4614-7132-X (e-book). xi + 767 + 91 + 29 pp. LCCN QA431. URL <http://link.springer.com/10.1007/978-1-4614-7132-5>.

**Calio:1986:CGK**

- [CGM86a] Franca Calio, Walter Gautschi, and Elena Marchetti. On computing Gauss–Kronrod quadrature formulae. *Mathematics of Computation*, 47(176):639–650, S57–S63, October 1986. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic).

**Calio:1986:SCG**

- [CGM86b] Franca Calio, Walter Gautschi, and Elena Marchetti. Supplement to on computing Gauss–Kronrod quadrature formulae. *Mathematics of Computation*, 47(176):S57–S63, October 1986. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic).

**Cordova:1990:VMC**

- [CGR90] Antonio Córdoba, Walter Gautschi, and Stephan Ruscheweyh. Vandermonde matrices on the circle: spectral properties and conditioning. *Numerische Mathematik*, 57(6/7):577–591, July 1990. CODEN

NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). Paper presented at the Conference on Approximation Theory and Numerical Linear Algebra, 30 March – 1 April, 1989, Kent, Ohio.

**Ellis:1974:RAHb**

- [Ell74] T. M. R. Ellis. Remark on “Algorithm 420: Hidden-line plotting program”. *Communications of the ACM*, 17(12):706–??, 1974. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic).

**Elliott:1996:BRA**

- [Ell96] David Elliott. Book reviews: *Approximation and Computation: A Festschrift in honor of Walter Gautschi*, edited by R. V. M. Zahar. *Mathematics of Computation*, 65(215):??, July 1996. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic). URL <http://www.ams.org/jourcgi/jour-pbprocess?fn=110&arg1=S0025-5718-96-00705-3&u=/mcom/1996-65-215/>.

**Fellmann:2007:LE**

- [Fel07] Emil Alfred Fellmann. *Leonhard Euler*. Birkhäuser, Cambridge, MA, USA; Berlin, Germany; Basel, Switzerland, 2007. ISBN 3-7643-7538-8, 3-7643-7539-6 (e-book). xv + 179 pp. LCCN QA29.E8 F452 2007. URL <http://www.loc.gov/catdir/toc/fy0709/2006937470.html>. Translated by E. Gautschi and W. Gautschi from the 1995 German original of the same title.

**Flury:1986:ASO**

- [FG86] Bernhard N. Flury and Walter Gautschi. An algorithm for simultaneous orthogonal transformation of several positive definite symmetric matrices to nearly diagonal form. *SIAM Journal on Scientific and Statistical Computing*, 7(1):169–184, January 1986. CODEN SIJCD4. ISSN 0196-5204.

**Frontini:1987:MPS**

- [FGM87] Marco Frontini, Walter Gautschi, and Gradimir V. Milovanović. Moment-preserving spline approximation on finite intervals. *Numerische Mathematik*, 50(5):503–518, March 1987. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

**Forster:1982:BOT**

- [För82] Klaus-Jürgen Förster. Bemerkungen zur optimalen Tschebyscheff-Typ Quadratur. (German) [Remarks on optimal Chebyshev-type quadratures]. *Numerische Mathematik*, 38(3):421–425, March 1982.

CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

**G:1968:BRD**

- [G.68] W. G. Book review: Donald Greenspan, editor, *Numerical Solutions of Nonlinear Differential Equations*, John Wiley & Sons, Inc., New York, 1966, x + 347 pp. *Mathematics of Computation*, 22(104):896–898, October 1968. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic). URL <https://doi.org/10.2307/2004598>.

**G:1970:BRR**

- [G.70] W. G. Book review: R. Sauer, I. Szabo, T. P. Angelitch, G. Aumann, F. L. Bauer, R. Bulirsch, H. P. Kunzi, H. Rutishauser, K. Samelson, R. Sauer, and J. Stoer, *Mathematische Hilfsmittel des Ingenieurs. III*, Springer-Verlag, Berlin, 1969, xviv + 534 pp., 24 cm. Price \$24.50. *Mathematics of Computation*, 24(110):475, April 1970. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic). URL <https://www.jstor.org/stable/2004494>.

**Gautschi:1953:AGI**

- [Gau53a] Walter Gautschi. *Analyse graphischer Integrationsmethoden. (German) [Analysis of graphical integration methods]*. Dr. phil., Universität Basel, Basel, Switzerland, 1953.

**Gautschi:1953:ABPa**

- [Gau53b] Walter Gautschi. The asymptotic behaviour of powers of matrices. *Duke Mathematical Journal*, 20:127–140, 1953. CODEN DUMJAO. ISSN 0012-7094 (print), 1547-7398 (electronic).

**Gautschi:1953:ABPb**

- [Gau53c] Walter Gautschi. The asymptotic behaviour of powers of matrices. II. *Duke Mathematical Journal*, 20:375–379, 1953. CODEN DUMJAO. ISSN 0012-7094 (print), 1547-7398 (electronic).

**Gautschi:1953:FGI**

- [Gau53d] Walter Gautschi. Fehlerabschätzungen für die graphischen Integrationsverfahren von Grammel und Meissner-Ludwig. (German) [Error estimates for the graphical integration procedures of Grammel and Meissner-Ludwig]. *Verhandlungen der Naturforschenden Gesellschaft in Basel*, 64:401–435, 1953.

**Gautschi:1954:ZUZ**

- [Gau54a] Walter Gautschi. Über die zeichnerischen Ungenauigkeiten und die zweckmässige Bemessung der Schrittlänge beim graphischen Integrationsverfahren von Meissner-Ludwig. (German) [On the graphical inaccuracies and the appropriate dimensioning of the step length in the graphical integration method by Meissner-Ludwig]. *Verhandlungen der Naturforschenden Gesellschaft in Basel*, 65:49–66, 1954. CODEN VNGBAH. ISSN 0077-6122.

**Gautschi:1954:KLS**

- [Gau54b] Walter Gautschi. Über eine Klasse von linearen Systemen mit konstanten Koeffizienten. (German) [On a class of linear systems with constant coefficients]. *Commentarii Mathematici Helvetici (Zurich)*, 28:186–196, 1954. CODEN COMHAX. ISSN 0010-2571 (print), 1420-8946 (electronic).

**Gautschi:1955:FRK**

- [Gau55] Walter Gautschi. Über den Fehler des Runge–Kutta-Verfahrens für die numerische Integration gewöhnlicher Differentialgleichungen  $n$ -ter Ordnung. (German) [On the error of the Runge–Kutta method for the numerical integration of ordinary differential equations of  $n$ -th order]. *Zeitschrift für Angewandte Mathematik und Physik = Journal of Applied Mathematics and Physics*, 6:456–461, 1955. CODEN ZAMPDB. ISSN 0044-2275 (print), 1420-9039 (electronic).

**Gautschi:1956:BNB**

- [Gau56a] Walter Gautschi. Bemerkung zu einer notwendigen Bedingung von Picone in der Variationsrechnung. (German) [Remark on a necessary condition of Picone in the variation calculation]. *Commentarii Mathematici Helvetici (Zurich)*, 31:1–4, 1956. CODEN COMHAX. ISSN 0010-2571 (print), 1420-8946 (electronic).

**Gautschi:1956:EAI**

- [Gau56b] Walter Gautschi. Una estensione agli integrali doppi di una condizione di Picone, necessaria per un estremo. (Italian) [An extension to double integrals of a condition of Picone, necessary for one extreme]. *Atti della Accademia Nazionale dei Lincei. Rendiconti. Classe di Scienze Fisiche, Matematiche e Naturali. Serie VIII*, 20: 283–289, 1956. CODEN ???? ISSN 0392-7881.



**Gautschi:1959:EIL**

- [Gau59a] W. Gautschi. Exponential integral  $\int_1^\infty e^{-xt}t^{-n} dt$  for large values of  $n$ . *Journal of Research of the National Bureau of Standards (1934)*, 62(3):123–125, March 1959. ISSN 0091-0635.

**Gautschi:1959:NBL**

- [Gau59b] Walter Gautschi. Note on bivariate linear interpolation for analytic functions. *Mathematical Tables and Other Aids to Computation*, 13(66):91–96, April 1959. CODEN MTTCAS. ISSN 0891-6837 (print), 2326-4853 (electronic).

**Gautschi:1959:SEI**

- [Gau59c] Walter Gautschi. Some elementary inequalities relating to the gamma and incomplete gamma function. *Journal of Mathematics and Physics (MIT)*, 38(1–4):77–81, April 1959. CODEN JMPHA9. ISSN 0097-1421. URL <https://onlinelibrary.wiley.com/doi/epdf/10.1002/sapm195938177>.

**Gautschi:1961:NIO**

- [Gau61a] Walter Gautschi. Numerical integration of ordinary differential equations based on trigonometric polynomials. *Numerische Mathematik*, 3(1):381–397, December 1961. CODEN NUMMA7. ISSN 0029-599x (print), 0945-3245 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=3&issue=1&spage=381>.

**Gautschi:1961:RCC**

- [Gau61b] Walter Gautschi. Recursive computation of certain integrals. *Journal of the ACM*, 8(1):21–40, January 1961. CODEN JACOAH. ISSN 0004-5411 (print), 1557-735x (electronic).

**Gautschi:1961:RCR**

- [Gau61c] Walter Gautschi. Recursive computation of the repeated integrals of the error function. *Mathematics of Computation*, 15(75):227–232, July 1961. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic).

**Gautschi:1962:DFS**

- [Gau62a] Walter Gautschi. Diffusion functions for small argument. *SIAM Review*, 4(3):227–229, 1962. CODEN SIREAD. ISSN 0036-1445 (print), 1095-7200 (electronic).

**Gautschi:1962:ILS**

- [Gau62b] Walter Gautschi. Instability of linear second-order difference equations [abstract only]. In *Proceedings of the International Conference on Information Processing*, page 207. ????, ????, 1962.

**Gautschi:1962:IVC**

- [Gau62c] Walter Gautschi. On inverses of Vandermonde and confluent Vandermonde matrices. *Numerische Mathematik*, 4:117–123, 1962. CODEN NUMMA7. ISSN 0029-599x (print), 0945-3245 (electronic).

**Gautschi:1963:IVC**

- [Gau63a] Walter Gautschi. On inverses of Vandermonde and confluent Vandermonde matrices. II. *Numerische Mathematik*, 5:425–430, 1963. CODEN NUMMA7. ISSN 0029-599x (print), 0945-3245 (electronic).

**Gautschi:1963:RCS**

- [Gau63b] Walter Gautschi. Recursive computation of special functions. In ????, editor, *The University of Michigan Engineering Summer Conferences, Numerical Analysis, Summer 1963*, page ?? ????, ????, 1963.

**Gautschi:1964:AAI**

- [Gau64a] W. Gautschi. ACM Algorithm 222: Incomplete beta function ratios. *Communications of the ACM*, 7(3):143–144, March 1964. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). See remark [KD71, Ell74].

**Gautschi:1964:AAB**

- [Gau64b] W. Gautschi. ACM Algorithm 236: Bessel functions of the first kind [S17]. *Communications of the ACM*, 7(8):479–480, August 1964. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). See remark [Sko75].

**Gautschi:1964:AGF**

- [Gau64c] Walter Gautschi. Algorithm 221: Gamma functions. *Communications of the ACM*, 7(3):143, March 1964. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic).

**Gautschi:1964:AIB**

- [Gau64d] Walter Gautschi. Algorithm 222: Incomplete beta functions ratios. *Communications of the ACM*, 7(3):143, March 1964. CODEN

CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). See remark [KD71, Ell74].

**Gautschi:1964:CAI**

- [Gau64e] Walter Gautschi. Certification of Algorithm 222: Incomplete beta function ratios. *Communications of the ACM*, 7(4):244, April 1964. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic).

**Gautschi:1964:EFF**

- [Gau64f] Walter Gautschi. Error function and Fresnel integrals. In Abramowitz and Stegun [AS64], pages 295–330. LCCN QA47.A161 1972; QA 55 A16h 1972. Tenth printing, with corrections (December 1972). This book is also available online at <http://www.convertit.com/Go/ConvertIt/Reference/AMS55.ASP> in bitmap image format.

**Gautschi:1965:ALF**

- [Gau65a] W. Gautschi. Algorithm 259: Legendre functions for arguments larger than one [S16]. *Communications of the ACM*, 8(8):488–492, August 1965. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). See also [Jan77].

**Gautschi:1965:CAS**

- [Gau65b] Walter Gautschi. Certification of Algorithm 236 [S17]: Bessel functions of the first kind. *Communications of the ACM*, 8(2):105–106, February 1965. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic).

**Gautschi:1966:AD**

- [Gau66a] Walter Gautschi. Algorithm 282: Derivatives of  $e^x/x$ ,  $\cos(x)/x$ , and  $\sin(x)/x$ . *Communications of the ACM*, 9(4):272, April 1966. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). See remark [GK70b].

**Gautschi:1966:ARC**

- [Gau66b] Walter Gautschi. Algorithm 292: Regular Coulomb wave functions. *Communications of the ACM*, 9(11):793–795, November 1966. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic).

**Gautschi:1966:CSD**

- [Gau66c] Walter Gautschi. Computation of successive derivatives of  $f(z)/z$ . *Mathematics of Computation*, 20(94):209–214, April 1966. CODEN MCMPEAF. ISSN 0025-5718 (print), 1088-6842 (electronic).

**Gautschi:1967:CAT**

- [Gau67a] Walter Gautschi. Computational aspects of three-term recurrence relations. *SIAM Review*, 9(1):24–82, January 1967. CODEN SIREAD. ISSN 0036-1445 (print), 1095-7200 (electronic). URL <http://link.aip.org/link/?SIR/9/24/1>.

**Gautschi:1967:NQP**

- [Gau67b] Walter Gautschi. Numerical quadrature in the presence of a singularity. *SIAM Journal on Numerical Analysis*, 4(3):357–362, September 1967. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

**Gautschi:1968:AAG**

- [Gau68a] Walter Gautschi. Algorithm 331: Gaussian quadrature formulas [D1]. *Communications of the ACM*, 11(6):432–436, June 1968. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic).

**Gautschi:1968:CGC**

- [Gau68b] Walter Gautschi. Construction of Gauss–Christoffel quadrature formulas. *Mathematics of Computation*, 22(102):251–270, April 1968. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic).

**Gautschi:1969:AAC**

- [Gau69a] W. Gautschi. ACM Algorithm 363: Complex error function. *Communications of the ACM*, 12(11):635, November 1969. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). See certification [Köl72].

**Gautschi:1969:ACE**

- [Gau69b] Walter Gautschi. Algorithm 363: Complex error function [S15]. *Communications of the ACM*, 12(11):635, November 1969. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). See certification [Köl72].

**Gautschi:1969:AMS**

- [Gau69c] Walter Gautschi. An application of minimal solutions of three-term recurrences to Coulomb wave functions. *Aequationes Mathematicae*, 2:171–176, 1969. CODEN AEMABN. ISSN 0001-9054 (print), 1420-8903 (electronic).

**Gautschi:1969:CMA**

- [Gau69d] Walter Gautschi. On the condition of a matrix arising in the numerical inversion of the Laplace transform. *Mathematics of Computation*, 23(105):109–118, January 1969. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic).

**Gautschi:1969:RAS**

- [Gau69e] Walter Gautschi. Remark on Algorithm 292 [S22]: Regular Coulomb wave functions. *Communications of the ACM*, 12(5):280, May 1969. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic).

**Gautschi:1970:ECC**

- [Gau70a] Walter Gautschi. Efficient computation of the complex error function. *SIAM Journal on Numerical Analysis*, 7(1):187–198, March 1970. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). See erratum [Wei95].

**Gautschi:1970:CGQ**

- [Gau70b] Walter Gautschi. On the construction of Gaussian quadrature rules from modified moments. *Mathematics of Computation*, 24(110):245–260, April 1970. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic).

**Gautschi:1970:TGQ**

- [Gau70c] Walter Gautschi. Tables of Gaussian quadrature rules for the calculation of Fourier coefficients. *Mathematics of Computation*, 24(110, loose microfiche suppl):A–D, 1970. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic).

**Gautschi:1972:NRR**

- [Gau72a] W. Gautschi. Zur Numerik rekurrenter Relationen. (German) [Numerical aspects of recurrence relations]. *Computing: Archiv für Informatik und Numerik*, 9(2):107–126, June 1972. CODEN CMPA2. ISSN 0010-485X (print), 1436-5057 (electronic).

**Gautschi:1972:AFP**

- [Gau72b] Walter Gautschi. Attenuation factors in practical Fourier analysis. *Numerische Mathematik*, 18(5):373–400, October 1972. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

**Gautschi:1972:COP**

- [Gau72c] Walter Gautschi. The condition of orthogonal polynomials. *Mathematics of Computation*, 26(120):923–924, October 1972. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic).

**Gautschi:1973:AAE**

- [Gau73a] Walter Gautschi. ACM Algorithm 471: Exponential integrals [S13]. *Communications of the ACM*, 16(12):761–763, December 1973. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic).

**Gautschi:1973:NAR**

- [Gau73b] Walter Gautschi. *Numerical aspects of recurrence relations*. Aerospace Research Laboratories, Air Force Systems Command, United States Air Force, Wright-Patterson Air Force Base, Ohio, 1973. v + 38 pp. Translated by the author, with the publisher's permission, from *Computing (Arch. Elektron. Rechnen)* **9** (1972), 107–126, ARL 73-0005.

**Gautschi:1973:CAE**

- [Gau73c] Walter Gautschi. On the condition of algebraic equations. *Numerische Mathematik*, 21(5):405–424, October 1973. CODEN NUMMA7. ISSN 0029-599x (print), 0945-3245 (electronic).

**Gautschi:1974:HMI**

- [Gau74a] Walter Gautschi. A harmonic mean inequality for the gamma function. *SIAM Journal on Mathematical Analysis*, 5(2):278–281, April 1974. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

**Gautschi:1974:SMV**

- [Gau74b] Walter Gautschi. Some mean value inequalities for the gamma function. *SIAM Journal on Mathematical Analysis*, 5(2):282–292, April 1974. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

**Gautschi:1975:CMS**

- [Gau75a] Walter Gautschi. Computational methods in special functions — a survey. In Askey [Ask75], pages 1–98. Math. Res. Center, Univ. Wisconsin Publ., No. 35. ISBN 0-12-064850-4. LCCN QA3 .U45 no. 35 QA351.

**Gautschi:1975:NCT**

- [Gau75b] Walter Gautschi. Nonexistence of Chebyshev-type quadratures on infinite intervals. *Mathematics of Computation*, 29(129):93–99, January 1975. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic).

**Gautschi:1975:NEI**

- [Gau75c] Walter Gautschi. Norm estimates for inverses of Vandermonde matrices. *Numerische Mathematik*, 23(4):337–347, August 1975. CODEN NUMMA7. ISSN 0029-599x (print), 0945-3245 (electronic).

**Gautschi:1975:OCV**

- [Gau75d] Walter Gautschi. Optimally conditioned Vandermonde matrices. *Numerische Mathematik*, 24(1):1–12, February 1975. CODEN NUMMA7. ISSN 0029-599x (print), 0945-3245 (electronic).

**Gautschi:1975:SDG**

- [Gau75e] Walter Gautschi. Stime dell'errore globale nei metodi “one-step” per equazioni differenziali ordinarie. (Italian) [Estimates of the global error in “one-step” methods for ordinary differential equations]. *Rendiconti di Matematica. Serie VII. Università degli Studi di Roma. Istituto Matematica Guido Castelnuovo. Istituto di Matematica Applicata. Istituto Nazionale di Alta Matematica*, 8(2):601–617, 1975. ISSN 0034-4427. Collection of articles dedicated to Mauro Picone, II.

**Gautschi:1976:ACQ**

- [Gau76] Walter Gautschi. Advances in Chebyshev quadrature. *Lecture Notes in Mathematics*, 506:100–121, 1976. CODEN LNMAA2. ISBN 3-540-07610-7 (print), 3-540-38129-5 (e-book). ISSN 0075-8434 (print), 1617-9692 (electronic). URL <http://link.springer.com/chapter/10.1007/BFb0080118/>.

**Gautschi:1977:ARI**

- [Gau77a] Walter Gautschi. Algorithm 521: Repeated integrals of the coerror function [S15]. *ACM Transactions on Mathematical Software*, 3(3):301–302, September 1977. CODEN ACMSCU. ISSN 0098-3500 (print), 1557-7295 (electronic).

**Gautschi:1977:ACC**

- [Gau77b] Walter Gautschi. Anomalous convergence of a continued fraction for ratios of Kummer functions. *Mathematics of Computation*, 31

(140):994–999, October 1977. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic).

**Gautschi:1977:ERI**

- [Gau77c] Walter Gautschi. Evaluation of repeated integrals of the coerror function. *ACM Transactions on Mathematical Software*, 3(3):240–252, September 1977. CODEN ACMSCU. ISSN 0098-3500 (print), 1557-7295 (electronic).

**Gautschi:1978:IVC**

- [Gau78a] Walter Gautschi. On inverses of Vandermonde and confluent Vandermonde matrices. III. *Numerische Mathematik*, 29(4):445–450, April 1978. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

**Gautschi:1978:QNC**

- [Gau78b] Walter Gautschi. Questions of numerical conditions related to polynomials. In *Recent advances in numerical analysis (Proc. Sympos., Math. Res. Center, Univ. Wisconsin, Madison, Wis., 1978)*, volume 41 of *Publ. Math. Res. Center Univ. Wisconsin*, pages 45–72. Academic Press, New York, NY, USA, 1978.

**Gautschi:1979:AIG**

- [Gau79a] W. Gautschi. Algorithm 542: Incomplete gamma functions [S14]. *ACM Transactions on Mathematical Software*, 5(4):482–489, December 1979. CODEN ACMSCU. ISSN 0098-3500 (print), 1557-7295 (electronic).

**Gautschi:1979:CPI**

- [Gau79b] Walter Gautschi. A computational procedure for incomplete gamma functions. *ACM Transactions on Mathematical Software*, 5(4):466–481, December 1979. CODEN ACMSCU. ISSN 0098-3500 (print), 1557-7295 (electronic).

**Gautschi:1979:CPP**

- [Gau79c] Walter Gautschi. The condition of polynomials in power form. *Mathematics of Computation*, 33(145):343–352, January 1979. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic).

**Gautschi:1979:PPL**

- [Gau79d] Walter Gautschi. On the preceding paper “A Legendre polynomial integral” by James L. Blue. *Mathematics of Computation*, 33(146):



742–743, April 1979. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic).

**Gautschi:1981:CNA**

- [Gau81a] Walter Gautschi. Christoffel and numerical analysis. In Butzer and Fehér [BF81], page 749. ISBN 3-7643-1162-2. LCCN QA7 I57 1981; QA 7 .I57 1981; QA76 .I556 1981. URL <https://link.springer.com/book/10.1007/978-3-0348-5452-8>.

**Gautschi:1981:MST**

- [Gau81b] Walter Gautschi. Minimal solutions of three-term recurrence relations and orthogonal polynomials. *Mathematics of Computation*, 36(154):547–554, April 1981. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic).

**Gautschi:1981:RCW**

- [Gau81c] Walter Gautschi. Recognition of Christoffel’s work on quadrature during and after his lifetime. In Butzer and Fehér [BF81], pages 724–727. ISBN 3-7643-1162-2. LCCN QA7 I57 1981; QA 7 .I57 1981; QA76 .I556 1981. URL <https://link.springer.com/book/10.1007/978-3-0348-5452-8>.

**Gautschi:1981:SGC**

- [Gau81d] Walter Gautschi. A survey of Gauss–Christoffel quadrature formulae. In Butzer and Fehér [BF81], pages 72–147. ISBN 3-7643-1162-2. LCCN QA7 I57 1981; QA 7 .I57 1981; QA76 .I556 1981. URL <https://link.springer.com/book/10.1007/978-3-0348-5452-8>.

**Gautschi:1982:GOP**

- [Gau82a] Walter Gautschi. On generating orthogonal polynomials. *SIAM Journal on Scientific and Statistical Computing*, 3(3):289–317, September 1982. CODEN SIJCD4. ISSN 0196-5204.

**Gautschi:1982:POR**

- [Gau82b] Walter Gautschi. Polynomials orthogonal with respect to the reciprocal gamma function. *BIT (Nordisk tidskrift for informations-behandling)*, 22(3):387–389, September 1982. CODEN BITTEL, NBITAB. ISSN 0006-3835 (print), 1572-9125 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=0006-3835&volume=22&issue=3&page=387>.

**Gautschi:1983:CVL**

- [Gau83a] Walter Gautschi. The condition of Vandermonde-like matrices involving orthogonal polynomials. *Linear Algebra and its Applications*, 52/53(?):293–300, 1983. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic).

**Gautschi:1983:HHC**

- [Gau83b] Walter Gautschi. How and how not to check Gaussian quadrature formulae. *BIT (Nordisk tidskrift for informationsbehandling)*, 23(2):209–216, June 1983. CODEN BITTEL, NBITAB. ISSN 0006-3835 (print), 1572-9125 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=0006-3835&volume=23&issue=2&spage=209>.

**Gautschi:1983:CBC**

- [Gau83c] Walter Gautschi. On the convergence behavior of continued fractions with real elements. *Mathematics of Computation*, 40(161):337–342, January 1983. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic).

**Gautschi:1983:AMO**

- [Gau83d] Walter Gautschi. To Alexander M. Ostrowski on his ninetieth birthday. *Linear Algebra and its Applications*, 52/53(?):xi–xiv, 1983. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic).

**Gautschi:1984:DAS**

- [Gau84a] Walter Gautschi. Discrete approximations to spherically symmetric distributions. *Numerische Mathematik*, 44(1):53–60, June 1984. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

**Gautschi:1984:SOP**

- [Gau84b] Walter Gautschi. On some orthogonal polynomials of interest in theoretical chemistry. *BIT (Nordisk tidskrift for informationsbehandling)*, 24(4):473–483, December 1984. CODEN BITTEL, NBITAB. ISSN 0006-3835 (print), 1572-9125 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=0006-3835&volume=24&issue=4&spage=473>.

**Gautschi:1984:QNC**

- [Gau84c] Walter Gautschi. Questions of numerical condition related to polynomials. In Golub [Gol84], pages 140–177. ISBN 0-88385-126-1 (v. 1), 0-88385-100-8 (set). LCCN QA297 .S83 1984.

**Gautschi:1985:OPC**

- [Gau85a] Walter Gautschi. Orthogonal polynomials — constructive theory and applications. *Journal of Computational and Applied Mathematics*, 12–13(??):61–76, May 1985. CODEN JCAMDI. ISSN 0377-0427 (print), 1879-1778 (electronic). URL <http://www.sciencedirect.com/science/article/pii/037704278590007X>.

**Gautschi:1985:SNA**

- [Gau85b] Walter Gautschi. Some new applications of orthogonal polynomials. *Lecture Notes in Mathematics*, 1171:63–73, 1985. CODEN LNMAA2. ISBN 3-540-16059-0 (print), 3-540-39743-4 (e-book). ISSN 0075-8434 (print), 1617-9692 (electronic). URL <http://link.springer.com/chapter/10.1007/BFb0076531/>.

**Gautschi:1986:SOP**

- [Gau86] Walter Gautschi. On the sensitivity of orthogonal polynomials to perturbations in the moments. *Numerische Mathematik*, 48(4):369–382, April 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

**Gautschi:1987:CIH**

- [Gau87] Walter Gautschi. A conjectured inequality for Hermite interpolation at the zeros of Jacobi polynomials. *SIAM Review*, 29(2):297–298, ??? 1987. CODEN SIREAD. ISSN 0036-1445 (print), 1095-7200 (electronic).

**Gautschi:1989:ZPO**

- [Gau89] Walter Gautschi. On the zeros of polynomials orthogonal on the semicircle. *SIAM Journal on Mathematical Analysis*, 20(3):738–743, May 1989. CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).

**Gautschi:1990:HSV**

- [Gau90] Walter Gautschi. How (un)stable are Vandermonde systems? In Wong [Won90], pages 193–210. ISBN 0-8247-8347-6. LCCN QA299.6 .A88 1990. URL <http://www.loc.gov/catdir/enhancements/fy0647/90002810-d.html>.

**Gautschi:1991:CSCa**

- [Gau91a] Walter Gautschi. A class of slowly convergent series and their summation by Gaussian quadrature. *Mathematics of Computation*, 57(195):309–324, July 1991. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic).

**Gautschi:1991:CSCb**

- [Gau91b] Walter Gautschi. On certain slowly convergent series occurring in plate contact problems. *Mathematics of Computation*, 57(195):325–338, July 1991. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic).

**Gautschi:1991:QFH**

- [Gau91c] Walter Gautschi. Quadrature formulae on half-infinite intervals. *BIT (Nordisk tidskrift for informationsbehandling)*, 31(3):437–446, September 1991. CODEN BITTEL, NBITAB. ISSN 0006-3835 (print), 1572-9125 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&iissn=0006-3835&volume=31&issue=3&spage=437>.

**Gautschi:1992:MCE**

- [Gau92] Walter Gautschi. On mean convergence of extended Lagrange interpolation. *Journal of Computational and Applied Mathematics*, 43(1–2):19–35, November 25, 1992. CODEN JCAMDI. ISSN 0377-0427 (print), 1879-1778 (electronic). URL <http://www.sciencedirect.com/science/article/pii/037704279290257X>.

**Gautschi:1993:RRO**

- [Gau93a] Walter Gautschi. Is the recurrence relation for orthogonal polynomials always stable? *BIT (Nordisk tidskrift for informationsbehandling)*, 33(2):277–284, June 1993. CODEN BITTEL, NBITAB. ISSN 0006-3835 (print), 1572-9125 (electronic). URL <http://www.mai.liu.se/BIT/contents/bit33.html>; <http://www.springerlink.com/openurl.asp?genre=article&iissn=0006-3835&volume=33&issue=2&spage=277>.

**Gautschi:1993:CGF**

- [Gau93b] Walter Gautschi. On the computation of generalized Fermi–Dirac and Bose–Einstein integrals. *Computer Physics Communications*, 74(2):233–238, February 1993. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL <http://www.sciencedirect.com/science/article/pii/001046559390093R>.

**Gautschi:1994:ACP**

- [Gau94a] Walter Gautschi. Algorithm 726: ORTHPOL—a package of routines for generating orthogonal polynomials and Gauss-type quadrature rules. *ACM Transactions on Mathematical Software*, 20(1):21–62, March 1994. CODEN ACMSCU. ISSN 0098-3500 (print), 1557-7295 (electronic). URL <http://www.acm.org/pubs/citations/journals/toms/1994-20-1/p21-gautschi/>. See remark [Gau98b].

**Gautschi:1994:MCH**

- [Gau94b] Walter Gautschi, editor. *Mathematics of computation, 1943–1993: a half-century of computational mathematics: Mathematics of Computation 50th Anniversary Symposium, August 9–13, 1993, Vancouver, British Columbia*, volume 48 of *Proceedings of Symposia in Applied Mathematics*. American Mathematical Society, Providence, RI, USA, 1994. ISBN 0-8218-0291-7, 0-8218-0353-0 (pt. 1), 0-8218-0354-9 (pt. 2). ISSN 0160-7634. LCCN QA1 .A56 v.48 1994; QA297.M385 1993. See also SIAM Review, September 1995, **37**(3), p. 483.

**Gautschi:1995:WPR**

- [Gau95] Walter Gautschi. The work of Philip Rabinowitz on numerical integration. *Numerical Algorithms*, 9(3–4):199–222, ??? 1995. CODEN NUALEG. ISSN 1017-1398 (print), 1572-9265 (electronic).

**Gautschi:1996:BRP**

- [Gau96a] Walter Gautschi. Book reviews: *Parallel processing for scientific computing*, edited by David H. Bailey, Petter E. Bjørstad, John R. Gilbert, Michael V. Mascagni, Robert S. Schreiber, Horst D. Simon, Virginia J. Torczon and Layne T. Watson. *Mathematics of Computation*, 65(213):??, January 1996. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic). URL <http://www.ams.org/jourcgi/jour-pbprocess?fn=110&arg1=S0025-5718-96-00666-7&u=/mcom/1996-65-213/>.

**Gautschi:1996:OPA**

- [Gau96b] Walter Gautschi. Orthogonal polynomials: applications and computation. *Acta Numerica*, 5:45–119, 1996. CODEN ANUMFU. ISBN 0-521-57234-7. ISSN 0962-4929 (print), 1474-0508 (electronic).

**Gautschi:1997:MQP**

- [Gau97a] W. Gautschi. Moments in quadrature problems. *Computers and Mathematics with Applications*, 33(1–2):105–118, January

1997. CODEN CMAPDK. ISSN 0898-1221 (print), 1873-7668 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0898122196002234>.

**Gautschi:1997:NA**

[Gau97b] Walter Gautschi. *Numerical analysis*. Birkhäuser Boston Inc., Cambridge, MA, USA, 1997. ISBN 0-8176-3895-4. xiv + 506 pp. An introduction.

**Gautschi:1997:NAI**

[Gau97c] Walter Gautschi. *Numerical analysis: an introduction*. Birkhäuser, Cambridge, MA, USA; Berlin, Germany; Basel, Switzerland, 1997. ISBN 0-8176-3895-4, 3-7643-3895-4 (Basel). xiii + 506 pp. LCCN QA297 .G35 1997.

**Gautschi:1998:IGF**

[Gau98a] Walter Gautschi. The incomplete gamma functions since Tricomi. In Anonymous [Ano98], pages 203–237. ISSN 0391-805X. LCCN QA299.6. URL <https://web.archive.org/web/20070503103643/http://citeseer.ist.psu.edu/gautschi98incomplete.html>.

**Gautschi:1998:RAO**

[Gau98b] Walter Gautschi. Remark on Algorithm 726: ORTHPOL — a package of routines for generating orthogonal polynomials and Gauss-type quadrature rules. *ACM Transactions on Mathematical Software*, 24(3):355, September 1998. CODEN ACMSCU. ISSN 0098-3500 (print), 1557-7295 (electronic). URL <http://www.acm.org:80/pubs/citations/journals/toms/1998-24-3/p355-gautschi/>. See [Gau94a].

**Gautschi:1999:AGG**

[Gau99a] Walter Gautschi. Algorithm 793: GQRAT — Gauss quadrature for rational functions. *ACM Transactions on Mathematical Software*, 25(2):213–239, June 1999. CODEN ACMSCU. ISSN 0098-3500 (print), 1557-7295 (electronic). URL <ftp://netlib.bell-labs.com/netlib/toms/793.gz>; <http://phase.etl.go.jp/netlib/toms/793>; <http://www.acm.org/pubs/citations/journals/toms/1999-25-2/p213-gautschi/>; <http://www.hensa.ac.uk/netlib/toms/793.gz>; <http://www.netlib.no/netlib/toms/793>; <http://www.netlib.org/toms/793>.

**Gautschi:1999:NRC**

- [Gau99b] Walter Gautschi. A note on the recursive calculation of incomplete gamma functions. *ACM Transactions on Mathematical Software*, 25(1):101–107, March 1999. CODEN ACMSCU. ISSN 0098-3500 (print), 1557-7295 (electronic). URL <http://www.acm.org:80/pubs/citations/journals/toms/1999-25-1/p101-gautschi/>.

**Gautschi:1999:OPQ**

- [Gau99c] Walter Gautschi. Orthogonal polynomials and quadrature. *Electronic Transactions on Numerical Analysis*, 9:65–76, 1999. CODEN ????? ISSN 1068-9613 (print), 1097-4067 (electronic). URL <http://etna.mcs.kent.edu/vol.9.1999/pp65-76.dir/pp65-76.pdf>.

**Gautschi:2000:BRC**

- [Gau00a] Walter Gautschi. Book review: *Computational Integration. Mathematics of Computation*, 69(231):1311–1312, July 2000. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic). URL <http://www.ams.org/mcom/2000-69-231/S0025-5718-00-01249-7/bookrev-S0025-5718-00-01249-7.html>; <http://www.ams.org/mcom/2000-69-231/S0025-5718-00-01249-7/S0025-5718-00-01249-7.dvi>; <http://www.ams.org/mcom/2000-69-231/S0025-5718-00-01249-7/S0025-5718-00-01249-7.pdf>; <http://www.ams.org/mcom/2000-69-231/S0025-5718-00-01249-7/S0025-5718-00-01249-7.ps>; <http://www.ams.org/mcom/2000-69-231/S0025-5718-00-01249-7/S0025-5718-00-01249-7.tex>.

**Gautschi:2000:HOG**

- [Gau00b] Walter Gautschi. High-order Gauss–Lobatto formulae. *Numerical Algorithms*, 25(1–4):213–222, September 2000. CODEN NUALEG. ISSN 1017-1398 (print), 1572-9265 (electronic). URL <http://ipsapp007.kluweronline.com/content/getfile/5058/3/20/abstract.htm>; <http://ipsapp007.kluweronline.com/content/getfile/5058/3/20/fulltext.pdf>. Mathematical journey through analysis, matrix theory and scientific computation (Kent, OH, 1999).

**Gautschi:2001:NBF**

- [Gau01a] Walter Gautschi. Note: Barycentric formulae for cardinal (SINC-) interpolants by Jean-Paul Berrut. *Numerische Mathematik*, 87(4):791–792, February 2001. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL <http://link.springer-ny.com/link/service/journals/00211/bibs/1087004/10870791>.

htm; <http://link.springer-ny.com/link/service/journals/00211/papers/1087004/10870791.pdf>.

**Gautschi:2001:URF**

- [Gau01b] Walter Gautschi. The use of rational functions in numerical quadrature. *Journal of Computational and Applied Mathematics*, 133(1–2):111–126, August 1, 2001. CODEN JCAMDI. ISSN 0377-0427 (print), 1879-1778 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0377042700006373>.

**Gautschi:2002:GQA**

- [Gau02a] W. Gautschi. Gauss quadrature approximations to hypergeometric and confluent hypergeometric functions. *Journal of Computational and Applied Mathematics*, 139(1):173–187, February 1, 2002. CODEN JCAMDI. ISSN 0377-0427 (print), 1879-1778 (electronic).

**Gautschi:2002:CBA**

- [Gau02b] Walter Gautschi. Computation of Bessel and Airy functions and of related Gaussian quadrature formulae. *BIT Numerical Mathematics*, 42(1):110–118, March 2002. CODEN BITTEL, NBITAB. ISSN 0006-3835 (print), 1572-9125 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=0006-3835&volume=42&issue=1&spage=110>.

**Gautschi:2002:IBC**

- [Gau02c] Walter Gautschi. The interplay between classical analysis and (numerical) linear algebra — a tribute to Gene H. Golub. *Electronic Transactions on Numerical Analysis*, 13(??):119–147, ??? 2002. CODEN ??? ISSN 1068-9613 (print), 1097-4067 (electronic). URL <http://etna.mcs.kent.edu/vol.13.2002/pp119-147.dir/pp119-147.pdf>.

**Gautschi:2004:GGR**

- [Gau04a] Walter Gautschi. Generalized Gauss–Radau and Gauss–Lobatto formulae. *BIT Numerical Mathematics*, 44(4):711–720, December 2004. CODEN BITTEL, NBITAB. ISSN 0006-3835 (print), 1572-9125 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=0006-3835&volume=44&issue=4&spage=711>.



**Gautschi:2004:OPC**

- [Gau04b] Walter Gautschi. *Orthogonal Polynomials: Computation and Approximation*. Oxford University Press, Oxford, UK, 2004. ISBN 0-19-850672-4. viii + 301 pp. LCCN QA404.5 .G356 2004.

**Gautschi:2005:CPO**

- [Gau05a] Walter Gautschi. Computing polynomials orthogonal with respect to densely oscillating and exponentially decaying weight functions and related integrals. *Journal of Computational and Applied Mathematics*, 184(2):493–504, December 15, 2005. CODEN JCAMDI. ISSN 0377-0427 (print), 1879-1778 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0377042705000440>.

**Gautschi:2005:HLF**

- [Gau05b] Walter Gautschi. The Hardy–Littlewood function: an exercise in slowly convergent series. *Journal of Computational and Applied Mathematics*, 179(1–2):249–254, July 1, 2005. CODEN JCAMDI. ISSN 0377-0427 (print), 1879-1778 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0377042704004510>.

**Gautschi:2005:HNG**

- [Gau05c] Walter Gautschi. A historical note on Gauss–Kronrod quadrature. *Numerische Mathematik*, 100(3):483–484, May 2005. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

**Gautschi:2005:NQC**

- [Gau05d] Walter Gautschi. Numerical quadrature computation of the Macdonald function for complex orders. *BIT Numerical Mathematics*, 45(3):593–603, September 2005. CODEN BITTEL, NBITAB. ISSN 0006-3835 (print), 1572-9125 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=0006-3835&volume=45&issue=3&spage=593>.

**Gautschi:2005:OPM**

- [Gau05e] Walter Gautschi. Orthogonal polynomials (in Matlab). *Journal of Computational and Applied Mathematics*, 178(1–2):215–234, June 1, 2005. CODEN JCAMDI. ISSN 0377-0427 (print), 1879-1778 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0377042704003760>.

**Gautschi:2006:CTR**

- [Gau06a] Walter Gautschi. The circle theorem and related theorems for Gauss-type quadrature rules. *Electronic Transactions on Numer-*

*ical Analysis*, 25:129–137, 2006. CODEN ???? ISSN 1068-9613 (print), 1097-4067 (electronic). URL <http://etna.mcs.kent.edu/vol.25.2006/pp129-137.dir/pp129-137.pdf>.

**Gautschi:2006:CKL**

- [Gau06b] Walter Gautschi. Computing the Kontorovich–Lebedev integral transforms and their inverses. *BIT Numerical Mathematics*, 46(1): 21–40, March 2006. CODEN BITTEL, NBITAB. ISSN 0006-3835 (print), 1572-9125 (electronic).

**Gautschi:2006:OPQ**

- [Gau06c] Walter Gautschi. Orthogonal polynomials, quadrature, and approximation: Computational methods and software (in Matlab). *Lecture Notes in Mathematics*, 1883:1–77, 2006. CODEN LNMAA2. ISBN 3-540-31062-2 (print), 3-540-36716-0 (e-book). ISSN 0075-8434 (print), 1617-9692 (electronic). URL [http://link.springer.com/content/pdf/10.1007/978-3-540-36716-1\\_1.pdf](http://link.springer.com/content/pdf/10.1007/978-3-540-36716-1_1.pdf); <http://link.springer.com/content/pdf/bfm:978-3-540-36716-1/1.pdf>.

**Gautschi:2007:GTT**

- [Gau07] Walter Gautschi. A guided tour through my bibliography. *Numerical Algorithms*, 45(1–4):11–35, August 2007. CODEN NUALEG. ISSN 1017-1398 (print), 1572-9265 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1017-1398&volume=45&issue=1&spage=11>.

**Gautschi:2008:ESL**

- [Gau08a] Walter Gautschi. Euler special lecture: Leonhard Euler: His life, the man, and his works. In Jeltsch and Wanner [JW08], pages 447–?? ISBN 3-03719-056-6, 3-03719-556-8 (e-book). LCCN QA1 .I73 2007.

**Gautschi:2008:LEH**

- [Gau08b] Walter Gautschi. Leonhard Euler: His life, the man, and his works. *SIAM Review*, 50(1):3–33, 2008. CODEN SIREAD. ISSN 0036-1445 (print), 1095-7200 (electronic). URL <http://link.aip.org/link/?SIR/50/3/1>.

**Gautschi:2008:NEC**

- [Gau08c] Walter Gautschi. The numerical evaluation of a challenging integral. *Numerical Algorithms*, 49(1–4):187–194, December 2008. CODEN NUALEG. ISSN 1017-1398 (print), 1572-9265 (electronic). URL

<http://www.springerlink.com/openurl.asp?genre=article&issn=1017-1398&volume=49&issue=1&spage=187>.

**Gautschi:2008:CIL**

- [Gau08d] Walter Gautschi. On a conjectured inequality for the largest zero of Jacobi polynomials. *Numerical Algorithms*, 49(1–4):195–198, December 2008. CODEN NUALEG. ISSN 1017-1398 (print), 1572-9265 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1017-1398&volume=49&issue=1&spage=195>.

**Gautschi:2008:EAC**

- [Gau08e] Walter Gautschi. On Euler’s attempt to compute logarithms by interpolation: a commentary to his letter of February 16, 1734 to Daniel Bernoulli. *Journal of Computational and Applied Mathematics*, 219(2):408–415, October 1, 2008. CODEN JCAMDI. ISSN 0377-0427 (print), 1879-1778 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S037704270600714X>.

**Gautschi:2009:HOG**

- [Gau09a] Walter Gautschi. High-order generalized Gauss–Radau and Gauss–Lobatto formulae for Jacobi and Laguerre weight functions. *Numerical Algorithms*, 51(2):143–149, June 2009. CODEN NUALEG. ISSN 1017-1398 (print), 1572-9265 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1017-1398&volume=51&issue=2&spage=143>. Tributes to Gene H. Golub, Part II.

**Gautschi:2009:NCI**

- [Gau09b] Walter Gautschi. New conjectured inequalities for zeros of Jacobi polynomials. *Numerical Algorithms*, 50(3):293–296, March 2009. CODEN NUALEG. ISSN 1017-1398 (print), 1572-9265 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1017-1398&volume=50&issue=3&spage=293>. See remark [?].

**Gautschi:2009:CIZ**

- [Gau09c] Walter Gautschi. On conjectured inequalities for zeros of Jacobi polynomials. *Numerical Algorithms*, 50(1):93–96, January 2009. CODEN NUALEG. ISSN 1017-1398 (print), 1572-9265 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1017-1398&volume=50&issue=1&spage=93>.

**Gautschi:2009:VPR**

- [Gau09d] Walter Gautschi. Variable-precision recurrence coefficients for non-standard orthogonal polynomials. *Numerical Algorithms*, 52(3): 409–418, November 2009. CODEN NUALEG. ISSN 1017-1398 (print), 1572-9265 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1017-1398&volume=52&issue=3&spage=409>.

**Gautschi:2009:HSB**

- [Gau10a] Walter Gautschi. How sharp is Bernstein’s inequality for Jacobi polynomials? *Electronic Transactions on Numerical Analysis*, 36: 1–8, 2009–2010. CODEN ???? ISSN 1068-9613 (print), 1097-4067 (electronic). URL <http://etna.mcs.kent.edu/vol.36.2009-2010/pp1-8.dir/pp1-8.pdf>; <http://etna.mcs.kent.edu/volumes/2001-2010/vol36/abstract.php?vol=36&pages=1-8>.

**Gautschi:2010:GQR**

- [Gau10b] Walter Gautschi. Gauss quadrature routines for two classes of logarithmic weight functions. *Numerical Algorithms*, 55(2–3): 265–277, November 2010. CODEN NUALEG. ISSN 1017-1398 (print), 1572-9265 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1017-1398&volume=55&issue=2&spage=265>.

**Gautschi:2010:STN**

- [Gau10c] Walter Gautschi. The spiral of Theodorus, numerical analysis, and special functions. *Journal of Computational and Applied Mathematics*, 235(4):1042–1052, December 15, 2010. CODEN JCAMDI. ISSN 0377-0427 (print), 1879-1778 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0377042709008012>.

**Gautschi:2011:EMI**

- [Gau11a] Walter Gautschi. Experimental mathematics involving orthogonal polynomials. In Gautschi et al. [GMR11], pages 117–134. ISBN 1-4419-6593-9 (paperback), 1-4419-6594-7 (e-book), 1-4419-6595-5, 1-4614-2703-7. LCCN QA39.2 .A67 2011; QA221 .A6345 2011. URL [https://link.springer.com/chapter/10.1007/978-1-4419-6594-3\\_9](https://link.springer.com/chapter/10.1007/978-1-4419-6594-3_9).

**Gautschi:2011:LWF**

- [Gau11b] Walter Gautschi. The Lambert  $W$ -functions and some of their integrals: a case study of high-precision computation. *Numerical Algo-*

*rithms*, 57(1):27–34, May 2011. CODEN NUALEG. ISSN 1017-1398 (print), 1572-9265 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1017-1398&volume=57&issue=1&spage=27>.

**Gautschi:2011:MCG**

- [Gau11c] Walter Gautschi. My collaboration with Gradimir V. Milovanović. In Gautschi et al. [GMR11], pages 33–43. ISBN 1-4419-6593-9 (paperback), 1-4419-6594-7 (e-book), 1-4419-6595-5, 1-4614-2703-7. LCCN QA39.2 .A67 2011; QA221 .A6345 2011.

**Gautschi:2011:OSO**

- [Gau11d] Walter Gautschi. Optimally scaled and optimally conditioned Vandermonde and Vandermonde-like matrices. *BIT Numerical Mathematics*, 51(1):103–125, March 2011. CODEN BITTEL, NBITAB. ISSN 0006-3835 (print), 1572-9125 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=0006-3835&volume=51&issue=1&spage=103>.

**Gautschi:2011:RNC**

- [Gau11e] Walter Gautschi. Remark on “New conjectured inequalities for zeros of Jacobi polynomials” by Walter Gautschi, Numer. Algorithms 50:293–296 (2009). *Numerical Algorithms*, 57(4):511, August 2011. CODEN NUALEG. ISSN 1017-1398 (print), 1572-9265 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1017-1398&volume=57&issue=4&spage=511>. See [Gau09b].

**Gautschi:2012:IBA**

- [Gau12a] W. Gautschi. Interpolation before and after Lagrange. *Rend. Semin. Mat. Univ. Politec. Torino*, 70(4):347–368, 2012. ISSN 0373-1243.

**Gautschi:2012:NIS**

- [Gau12b] Walter Gautschi. Numerical integration over the square in the presence of algebraic/logarithmic singularities with an application to aerodynamics. *Numerical Algorithms*, 61(2):275–290, October 2012. CODEN NUALEG. ISSN 1017-1398 (print), 1572-9265 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1017-1398&volume=61&issue=2&spage=275>. See erratum [Gau13a].

**Gautschi:2012:SRJ**

- [Gau12c] Walter Gautschi. Sub-range Jacobi polynomials. *Numerical Algorithms*, 61(4):649–657, December 2012. CODEN NUALEG. ISSN 1017-1398 (print), 1572-9265 (electronic). URL <http://link.springer.com/article/10.1007/s11075-012-9556-z/>; <http://www.springerlink.com/openurl.asp?genre=article&issn=1017-1398&volume=61&issue=4&spage=649-657>. See erratum [Gau17a].

**Gautschi:2013:ENI**

- [Gau13a] Walter Gautschi. Erratum to: Numerical integration over the square in the presence of algebraic/logarithmic singularities with an application to aerodynamics. *Numerical Algorithms*, 64(4):759, December 2013. CODEN NUALEG. ISSN 1017-1398 (print), 1572-9265 (electronic). URL <http://link.springer.com/article/10.1007/s11075-013-9787-7>; <http://link.springer.com/content/pdf/10.1007/s11075-013-9787-7.pdf>. See [Gau12b].

**Gautschi:2013:NNS**

- [Gau13b] Walter Gautschi. Neutralizing nearby singularities in numerical quadrature. *Numerical Algorithms*, 64(3):417–425, November 2013. CODEN NUALEG. ISSN 1017-1398 (print), 1572-9265 (electronic). URL <http://link.springer.com/article/10.1007/s11075-012-9672-9>.

**Gautschi:2013:RMO**

- [Gau13c] Walter Gautschi. Repeated modifications of orthogonal polynomials by linear divisors. *Numerical Algorithms*, 63(2):369–383, June 2013. CODEN NUALEG. ISSN 1017-1398 (print), 1572-9265 (electronic). URL <http://link.springer.com/article/10.1007/s11075-012-9627-1>.

**Gautschi:2014:HPG**

- [Gau14] Walter Gautschi. High-precision Gauss–Turán quadrature rules for Laguerre and Hermite weight functions. *Numerical Algorithms*, 67(1):59–72, September 2014. CODEN NUALEG. ISSN 1017-1398 (print), 1572-9265 (electronic). URL <http://link.springer.com/article/10.1007/s11075-013-9774-z>.

**Gautschi:2015:POR**

- [Gau15] Walter Gautschi. Polynomials orthogonal with respect to exponential integrals. *Numerical Algorithms*, 70(1):215–226, Septem-

ber 2015. CODEN NUALEG. ISSN 1017-1398 (print), 1572-9265 (electronic). URL <http://link.springer.com/article/10.1007/s11075-014-9943-8>.

**Gautschi:2016:AER**

- [Gau16a] Walter Gautschi. Algorithm 957: Evaluation of the repeated integral of the coerror function by half-range Gauss–Hermite quadrature. *ACM Transactions on Mathematical Software*, 42(1):9:1–9:10, February 2016. CODEN ACMSCU. ISSN 0098-3500 (print), 1557-7295 (electronic).

**Gautschi:2016:OPM**

- [Gau16b] Walter Gautschi. *Orthogonal polynomials in MATLAB: exercises and solutions*, volume 26 of *Software, environments, and tools*. Society for Industrial and Applied Mathematics, Philadelphia, PA, USA, 2016. ISBN 1-61197-429-1 (paperback), 1-61197-430-5. ix + 335 pp. LCCN QA404.5 .G3564 2016.

**Gautschi:2017:ESR**

- [Gau17a] Walter Gautschi. Erratum to: Sub-range Jacobi polynomials. *Numerical Algorithms*, 74(2):637, February 2017. CODEN NUALEG. ISSN 1017-1398 (print), 1572-9265 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11075-016-0257-x.pdf>. See [Gau12c].

**Gautschi:2017:MPZ**

- [Gau17b] Walter Gautschi. Monotonicity properties of the zeros of Freud and sub-range Freud polynomials: Analytic and empirical results. *Mathematics of Computation*, 86(304):855–864, 2017. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic). URL <http://www.ams.org/journals/mcom/2017-86-304/S0025-5718-2016-03181-6>; <http://www.ams.org/journals/mcom/2017-86-304/S0025-5718-2016-03181-6/S0025-5718-2016-03181-6.pdf>; <http://www.ams.org/mathscinet/search/author.html?mrauthid=71975>.

**Gautschi:2017:POR**

- [Gau17c] Walter Gautschi. Polynomials orthogonal with respect to cardinal B-spline weight functions. *Numerical Algorithms*, 76(4):1099–1107, December 2017. CODEN NUALEG. ISSN 1017-1398 (print), 1572-9265 (electronic).

**Gautschi:2018:DTM**

- [Gau18a] Walter Gautschi. A discrete top-down Markov problem in approximation theory. In *Frontiers in orthogonal polynomials and q-series*, volume 1 of *Contemp. Math. Appl. Monogr. Expo. Lect. Notes*, pages 267–289. World Scientific Publishing Co. Pte. Ltd., P. O. Box 128, Farrer Road, Singapore 9128, 2018.

**Gautschi:2018:ILA**

- [Gau18b] Walter Gautschi. On the Ismail–Letessier–Askey monotonicity conjecture for zeros of ultraspherical polynomials. In *Frontiers in orthogonal polynomials and q-series*, volume 1 of *Contemp. Math. Appl. Monogr. Expo. Lect. Notes*, pages 251–266. World Scientific Publishing Co. Pte. Ltd., P. O. Box 128, Farrer Road, Singapore 9128, 2018.

**Gautschi:2018:ZSJ**

- [Gau18c] Walter Gautschi. On the zeros of subrange Jacobi polynomials. *Numerical Algorithms*, 79(3):759–768, November 2018. CODEN NUALEG. ISSN 1017-1398 (print), 1572-9265 (electronic). See correction [Gau19].

**Gautschi:2018:PAS**

- [Gau18d] Walter Gautschi. Progress by accident: some reflections on my career. *SIAM News*, 51(10):7–8, 2018. ISSN 1557-9573.

**Gautschi:2018:SRO**

- [Gau18e] Walter Gautschi. *A software repository for orthogonal polynomials*, volume 28 of *Software, Environments, and Tools*. Society for Industrial and Applied Mathematics, Philadelphia, PA, USA, 2018. ISBN 1-61197-522-0. viii + 60 pp. LCCN QA404.5 .G3567 2018.

**Gautschi:2019:CSR**

- [Gau19] Walter Gautschi. Correction to: Sub-range Jacobi polynomials. *Numerical Algorithms*, 81(2):771, June 2019. CODEN NUALEG. ISSN 1017-1398 (print), 1572-9265 (electronic). URL <http://link.springer.com/content/pdf/10.1007/s11075-019-00715-9.pdf>. See [Gau18c].

**Gautschi:2021:SRG**

- [Gau21] Walter Gautschi. *A software repository for Gaussian quadratures and Christoffel functions*, volume 32 of *Software, Environments, and Tools*. Society for Industrial and Applied Mathematics,



Philadelphia, PA, USA, 2021. ISBN 1-61197-634-0 (paperback), 1-61197-635-9 (e-book). xvii + 134 pp. LCCN QA299.4.G3 G38 2021.

**Gautschi:2022:ALP**

- [Gau22] Walter Gautschi. Another look at polynomials orthogonal relative to exponential integral weight functions. *Numerical Algorithms*, 91(4):1547–1557, December 2022. CODEN NUALEG. ISSN 1017-1398 (print), 1572-9265 (electronic). URL <https://link.springer.com/article/10.1007/s11075-022-01313-y>.

**Gautschi:1971:AFP**

- [Gau72] Walter Gautschi. Attenuation factors in practical Fourier analysis. *Numerische Mathematik*, 18:373–400, 1971/72. CODEN NUMMA7. ISSN 0029-599x (print), 0945-3245 (electronic).

**Gautschi:1964:EIR**

- [GC64] Walter Gautschi and William F. Cahill. Exponential integral and related functions. In Abramowitz and Stegun [AS64], pages 227–252. LCCN QA47.A161 1972; QA 55 A16h 1972. Tenth printing, with corrections (December 1972). This book is also available online at <http://www.convertit.com/Go/ConvertIt/Reference/AMS55.ASP> in bitmap image format.

**Gander:1998:AQR**

- [GG98] Walter Gander and Walter Gautschi. Adaptive quadrature: Revisited. Technical Report 306, ETH Zürich, Zürich, Switzerland, 1998. ii + 21 pp. URL <http://hdl.handle.net/20.500.11850/69327>.

**Gander:2000:AQR**

- [GG00] Walter Gander and Walter Gautschi. Adaptive quadrature — revisited. *BIT Numerical Mathematics*, 40(1):84–101, March 2000. CODEN BITTEL, NBITAB. ISSN 0006-3835 (print), 1572-9125 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=0006-3835&volume=40&issue=1&spage=84>.

**Gautschi:2008:LGW**

- [GG08] Walter Gautschi and Carla Giordano. Luigi Gatteschi’s work on asymptotics of special functions and their zeros. *Numerical Algorithms*, 49(1–4):11–31, December 2008. CODEN NUALEG. ISSN 1017-1398 (print), 1572-9265 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=1017-1398&volume=49&issue=1&spage=11>.

**Gautschi:2000:QRR**

- [GGL00] Walter Gautschi, Laura Gori, and M. Laura Lo Cascio. Quadrature rules for rational functions. *Numerische Mathematik*, 86(4):617–633, October 2000. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL <http://link.springer-ny.com/link/service/journals/00211/bibs/0086004/00860617.htm>; <http://link.springer-ny.com/link/service/journals/00211/papers/0086004/00860617.pdf>.

**Gautschi:1999:ACO**

- [GGO99] Walter Gautschi, Gene H. Golub, and Gerhard Opfer, editors. *Applications and computation of orthogonal polynomials: conference at the Mathematical Research Institute Oberwolfach, Germany, March 22–28, 1998*, volume 131 of *International series of numerical mathematics*. Birkhäuser, Cambridge, MA, USA; Berlin, Germany; Basel, Switzerland, 1999. ISBN 3-7643-6137-9, 0-8176-6137-9 (paperback). LCCN QA404.5 .A67 1999.

**Gautschi:2019:CST**

- [GH19] Walter Gautschi and Ernst Hairer. On conjectures of Stenger in the theory of orthogonal polynomials. *Journal of Inequalities and Applications*, page 27, 2019. ISSN 1025-5834. URL <https://journalofinequalitiesandapplications.springeropen.com/articles/10.1186/s13660-019-2107-6>. Paper no. 159.

**Gautschi:2003:EEI**

- [GHT03] W. Gautschi, F. E. Harris, and N. M. Temme. Expansions of the exponential integral in incomplete gamma functions. *Applied Mathematics Letters*, 16(7):1095–1099, October 2003. CODEN AMLEEL. ISSN 0893-9659 (print), 1873-5452 (electronic).

**Gautschi:1988:LBC**

- [GI88] Walter Gautschi and Gabriele Inglese. Lower bounds for the condition number of Vandermonde matrices. *Numerische Mathematik*, 52(3):241–250, March 1988. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

**Gautschi:1970:RCC**

- [GK70a] Walter Gautschi and Bruce J. Klein. Recursive computation of certain derivatives — a study of error propagation. *Communications of the ACM*, 13(1):7–9, January 1970. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic).

**Gautschi:1970:RAD**

- [GK70b] Walter Gautschi and Bruce J. Klein. Remark on Algorithm 282, Derivatives of  $e^x/x$ ,  $\cos(x)/x$ , and  $\sin(x)/x$ . *Communications of the ACM*, 13(1):53–54, January 1970. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). See [Gau66a].

**Gautschi:1987:NES**

- [GKM87] Walter Gautschi, M. A. Kovačević, and Gradimir V. Milovanović. The numerical evaluation of singular integrals with coth-kernel. *BIT (Nordisk tidskrift for informationsbehandling)*, 27(3):389–402, September 1987. CODEN BITTEL, NBITAB. ISSN 0006-3835 (print), 1572-9125 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&iissn=0006-3835&volume=27&issue=3&spage=389>.

**Gautschi:1990:RTA**

- [GL90] Walter Gautschi and Shikang Li. The remainder term for analytic functions of Gauss–Radau and Gauss–Lobatto quadrature rules with multiple end points. *Journal of Computational and Applied Mathematics*, 33(3):315–329, December 31, 1990. CODEN JCAMDI. ISSN 0377-0427 (print), 1879-1778 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S037704270580007X>.

**Gautschi:1991:GRG**

- [GL91] Walter Gautschi and Shikang Li. Gauss–Radau and Gauss–Lobatto quadratures with double end points. *Journal of Computational and Applied Mathematics*, 34(3):343–360, April 26, 1991. CODEN JCAMDI. ISSN 0377-0427 (print), 1879-1778 (electronic). URL <http://www.sciencedirect.com/science/article/pii/037704279190094Z>.

**Gautschi:1996:QCE**

- [GL96] Walter Gautschi and Shikang Li. On quadrature convergence of extended Lagrange interpolation. *Mathematics of Computation*, 65(215):1249–1256, July 1996. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic). URL <http://www.ams.org/jourcgi/jour-pbprocess?fn=110&arg1=S0025-5718-96-00731-4&u=/mcom/1996-65-215/>.

**Gautschi:2007:CIJ**

- [GL07] Walter Gautschi and Paul Leopardi. Conjectured inequalities for Jacobi polynomials and their largest zeros. *Numerical Algorithms*,

45(1–4):217–230, August 2007. CODEN NUALEG. ISSN 1017-1398 (print), 1572-9265 (electronic). URL <https://link.springer.com/article/10.1007/s11075-007-9067-5>.

**Giordano:1998:UTG**

- [GLP98] C. Giordano, A. Laforgia, and J. Pecarić. Unified treatment of Gautschi–Kershaw type inequalities for the gamma function. *Journal of Computational and Applied Mathematics*, 99(1–2):167–175, November 16, 1998. CODEN JCAMDI. ISSN 0377-0427 (print), 1879-1778 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S037704279800154X>.

**Gautschi:1977:OCQ**

- [GM77] Walter Gautschi and Giovanni Monegato. On optimal Chebyshev-type quadratures. *Numerische Mathematik*, 28(1):59–67, March 1977. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

**Gautschi:1985:GQI**

- [GM85a] Walter Gautschi and Gradimir V. Milovanovi. Gaussian quadrature involving Einstein and Fermi functions with an application to summation of series. *Mathematics of Computation*, 44(169):177–190, January 1985. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic). URL <http://www.jstor.org/stable/2007801>.

**Gautschi:1985:SGQ**

- [GM85b] Walter Gautschi and Gradimir V. Milovanovi. Supplement to Gaussian quadrature involving Einstein and Fermi functions with an application to summation of series. *Mathematics of Computation*, 44(169):S1–S11, January 1985. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic). URL <http://www.jstor.org/stable/2007816>.

**Gautschi:1986:SAS**

- [GM86] Walter Gautschi and Gradimir V. Milovanović. Spline approximations to spherically symmetric distributions. *Numerische Mathematik*, 49(2/3):111–121, March 1986. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

**Gautschi:1997:OCG**

- [GM97] Walter Gautschi and Gradimir V. Milovanovic.  $S$ -orthogonality and construction of Gauss–Turán-type quadrature formulae. *Journal of Computational and Applied Mathematics*, 86(1):205–218,

November 28, 1997. CODEN JCAMDI. ISSN 0377-0427 (print), 1879-1778 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0377042797001568>.

**Gautschi:2018:BTP**

- [GM18] Walter Gautschi and Gradimir V. Milovanović. Binet-type polynomials and their zeros. *Electronic Transactions on Numerical Analysis*, 50:52–70, 2018. CODEN ???? ISSN 1068-9613 (print), 1097-4067 (electronic). URL <http://etna.mcs.kent.edu/vol.50.2018/pp52-70.dir/pp52-70.pdf>; <http://etna.mcs.kent.edu/volumes/2011-2020/vol50/abstract.php?vol=50&pages=52-70>.

**Gautschi:2021:OPR**

- [GM21] Walter Gautschi and Gradimir V. Milovanović. Orthogonal polynomials relative to a generalized Marchenko–Pastur probability measure. *Numerical Algorithms*, 88(3):1233–1249, November 2021. CODEN NUALEG. ISSN 1017-1398 (print), 1572-9265 (electronic). URL <http://link.springer.com/article/10.1007/s11075-021-01073-1>.

**Gautschi:2022:OPR**

- [GM22] Walter Gautschi and Gradimir V. Milovanović. Orthogonal polynomials relative to weight functions of Prudnikov type. *Numerical Algorithms*, 90(1):263–270, May 2022. CODEN NUALEG. ISSN 1017-1398 (print), 1572-9265 (electronic). URL <https://link.springer.com/article/10.1007/s11075-021-01187-6>.

**Gautschi:2024:RID**

- [GM24] Walter Gautschi and Gradimir V. Milovanović. A Ramanujan integral and its derivatives: computation and analysis. *Mathematics of Computation*, 93(347):1297–1308, July 2024. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic). URL <https://www.ams.org/journals/mcom/2024-93-347/S0025-5718-2023-03892-3>.

**Gautschi:2001:P**

- [GMR01] Walter Gautschi, Francisco Marcellán, and Lothar Reichel. Preface. *Journal of Computational and Applied Mathematics*, 127(1–2):ix–xi, January 15, 2001. CODEN JCAMDI. ISSN 0377-0427 (print), 1879-1778 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0377042700004908>.

**Gautschi:2011:ACH**

- [GMR11] Walter Gautschi, Giuseppe Mastroianni, and Themistocles M. Rassias, editors. *Approximation and Computation: In Honor of Gradimir V. Milovanović*, volume 42 of *Springer Optimization and Its Applications*. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 2011. ISBN 1-4419-6593-9 (paperback), 1-4419-6594-7 (e-book), 1-4419-6595-5, 1-4614-2703-7. xviii + 482 pp. LCCN QA39.2 .A67 2011; QA221 .A6345 2011.

**Gautschi:1988:ASG**

- [GN88] Walter Gautschi and Sotirios E. Notaris. An algebraic study of Gauss–Kronrod quadrature formulae for Jacobi weight functions. *Mathematics of Computation*, 51(183):231–248, July 1988. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic).

**Gautschi:1989:GKQ**

- [GN89] Walter Gautschi and Sotirios E. Notaris. Gauss–Kronrod quadrature formulae for weight functions of Bernstein–Szegő type. *Journal of Computational and Applied Mathematics*, 25(2):199–224, February 1989. CODEN JCAMDI. ISSN 0377-0427 (print), 1879-1778 (electronic). URL <http://www.sciencedirect.com/science/article/pii/0377042789900472>. See erratum [Ano89].

**Gautschi:1996:SPR**

- [GN96] Walter Gautschi and Sotirios E. Notaris. Stieltjes polynomials and related quadrature formulae for a class of weight functions. *Mathematics of Computation*, 65(215):1257–1268, July 1996. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic). URL <http://www.ams.org/jourcgi/jour-pbprocess?fn=110&arg1=S0025-5718-96-00732-6&u=/mcom/1996-65-215/>.

**Golub:1984:SNA**

- [Gol84] Gene H. Golub, editor. *Studies in Numerical Analysis*, volume 24 of *Studies in mathematics*. Mathematical Association of America, Washington, DC, USA, 1984. ISBN 0-88385-126-1 (v. 1), 0-88385-100-8 (set). x + 415 pp. LCCN QA297 .S83 1984.

**Gautschi:1988:FGK**

- [GR88] Walter Gautschi and Theodore J. Rivlin. A family of Gauss–Kronrod quadrature formulae. *Mathematics of Computation*, 51(184):749–754, October 1988. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic).

**Grimm:2005:NGT**

- [Gri05a] Volker Grimm. A note on the Gautschi-type method for oscillatory second-order differential equations. *Numerische Mathematik*, 102(1):61–66, November 2005. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=0029-599X&volume=102&issue=1&spage=61>.

**Grimm:2005:EBG**

- [Gri05b] Volker Grimm. On error bounds for the Gautschi-type exponential integrator applied to oscillatory second-order differential equations. *Numerische Mathematik*, 100(1):71–89, March 2005. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

**Gautschi:1978:CMB**

- [GS78] Walter Gautschi and Josef Slavik. On the computation of modified Bessel function ratios. *Mathematics of Computation*, 32(143):865–875, July 1978. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic).

**Gautschi:1990:NCI**

- [GTV90] Walter Gautschi, E. Tychopoulos, and R. S. Varga. A note on the contour integral representation of the remainder term for a Gauss–Chebyshev quadrature rule. *SIAM Journal on Numerical Analysis*, 27(1):219–224, February 1990. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

**Gautschi:1983:EBG**

- [GV83] Walter Gautschi and Richard S. Varga. Error bounds for Gaussian quadrature of analytic functions. *SIAM Journal on Numerical Analysis*, 20(6):1170–1186, December 1983. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

**Gautschi:1984:MYL**

- [GW84] Walter Gautschi and Jet Wimp. In memoriam: Yudell L. Luke, June 26, 1918–May 6, 1983. *Mathematics of Computation*, 43(168):349–352, October 1984. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic).

**Gautschi:1987:CHT**

- [GW87] Walter Gautschi and Jet Wimp. Computing the Hilbert transform of a Jacobi weight function. *BIT (Nordisk tidskrift for informa-*

*tionsbehandlung*), 27(2):203–215, June 1987. CODEN BITTEL, NBITAB. ISSN 0006-3835 (print), 1572-9125 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=0006-3835&volume=27&issue=2&spage=203>.

**Gautschi:2001:CHT**

- [GW01] Walter Gautschi and Jörg Waldvogel. Computing the Hilbert transform of the generalized Laguerre and Hermite weight functions. *BIT Numerical Mathematics*, 41(3):490–503, June 2001. CODEN BITTEL, NBITAB. ISSN 0006-3835 (print), 1572-9125 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&issn=0006-3835&volume=41&issue=3&spage=490>.

**Gautschi:1974:CTQ**

- [GY74] Walter Gautschi and Hiroki Yanagiwara. On Chebyshev-type quadratures. *Mathematics of Computation*, 28(125):125–134, January 1974. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic).

**Gautschi:1995:COP**

- [GZ95] Walter Gautschi and Minda Zhang. Computing orthogonal polynomials in Sobolev spaces. *Numerische Mathematik*, 71(2):159–183, August 1995. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL <http://link.springer.de/link/service/journals/00211/bibs/5071002/50710159.htm>; <http://science.springer.de/nmee/bibs/5071002/50710159.htm>.

**Higham:1994:SCPb**

- [Hig94] Nicholas J. Higham. A survey of componentwise perturbation theory in numerical linear algebra. In Walter Gautschi, editor, *Mathematics of Computation 1943–1993: A Half Century of Computational Mathematics*, volume 48 of *Proceedings of Symposia in Applied Mathematics*, pages 49–77. American Mathematical Society, Providence, RI, USA, 1994.

**Hochbruck:1999:GTM**

- [HL99] Marlis Hochbruck and Christian Lubich. A Gautschi-type method for oscillatory second-order differential equations. *Numerische Mathematik*, 83(3):403–426, September 1999. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic). URL <http://link.springer-ny.com/link/service/journals/00211/bibs/9083003/90830403.htm>; <http://link.springer-ny.com/link/service/journals/00211/papers/9083003/90830403.pdf>.



**I:1991:BRH**

- [I.91] E. I. Book review: Heinz Rutishauser, *Lectures on Numerical Mathematics* (translated from the German by Walter Gautschi), Birkhauser, Boston, 1990, xv + 546 pp., 23.5 cm. Price \$49. *Mathematics of Computation*, 57(196):869–870, October 1991. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic). URL <https://www.jstor.org/stable/2938724>.

**Jansen:1977:RLF**

- [Jan77] J. K. M. Jansen. Remark on “Algorithm 259: Legendre functions for arguments larger than one”. *ACM Transactions on Mathematical Software*, 3(2):204–205, June 1977. CODEN ACMSCU. ISSN 0098-3500 (print), 1557-7295 (electronic). See [Gau65a].

**Joulak:2009:GCG**

- [JB09] Hédi Joulak and Bernhard Beckermann. On Gautschi’s conjecture for generalized Gauss–Radau and Gauss–Lobatto formulae. *Journal of Computational and Applied Mathematics*, 233(3):768–774, December 1, 2009. CODEN JCAMDI. ISSN 0377-0427 (print), 1879-1778 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0377042709001241>.

**Jeltsch:2008:ICI**

- [JW08] Rolf Jeltsch and Gerhard Wanner, editors. *6th International congress on industrial and applied mathematics, ICIAM 07, Zürich, Switzerland, 16-20.07.2007*. European Mathematical Society Publishing House, Zürich, Switzerland, 2008. ISBN 3-03719-056-6, 3-03719-556-8 (e-book). LCCN QA1 .I73 2007.

**Kahan:196x:ACM**

- [Kah6x] W. M. Kahan. Note on bounds for generating Bessel functions by recurrence. 196x.

**Kolm:1971:MAL**

- [KD71] Å. Kolm and T. Dahlstrand. Remark on “Algorithm 333: Minit Algorithm For Linear Programming ([H])”. *Communications of the ACM*, 14(1):50, 1971. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). See [Gau64a].

**Kershaw:1983:SEW**

- [Ker83] D. Kershaw. Some extensions of W. Gautschi’s inequalities for the gamma function. *Mathematics of Computation*, 41(164):607–611,

October 1983. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic).

**Kolbig:1972:CAC**

- [Köl72] K. S. Kölbig. Certification of “Algorithm 363: Complex error function”. *Communications of the ACM*, 15(6):465–466, June 1972. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). See [Gau69b].

**Koumandos:2007:CIG**

- [Kou07] Stamatis Koumandos. On a conjectured inequality of Gautschi and Leopardi for Jacobi polynomials. *Numerical Algorithms*, 44(3):249–253, March 2007. CODEN NUALEG. ISSN 1017-1398 (print), 1572-9265 (electronic). URL <http://www.springerlink.com/openurl.asp?genre=article&iissn=1017-1398&volume=44&issue=3&spage=249>.

**Kunisch:2015:GTS**

- [KR15] Karl Kunisch and Stefan H. Reiterer. A Gautschi time-stepping approach to optimal control of the wave equation. *Applied Numerical Mathematics: Transactions of IMACS*, 90(??):55–76, April 2015. CODEN ANMAEL. ISSN 0168-9274 (print), 1873-5460 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0168927414001937>.

**Lenstra:1997:BRM**

- [Len97] H. W. Lenstra, Jr. Book reviews: *Mathematics of Computation 1943-1993: A half-century of computational mathematics*, by Walter Gautschi (Editor). *Mathematics of Computation*, 66(219):??, July 1997. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic).

**Lide:2001:CEM**

- [Lid01] D. R. Lide, editor. *A Century of Excellence in Measurements, Standards, and Technology: A Chronicle of Selected NBS/NIST Publications, 1901–2000*, volume 958. National Technical Information Service, Washington, DC, USA, 2001. ix + 386 pp. URL <https://nvlpubs.nist.gov/nistpubs/sp958-lide/cntsp958old.htm>. NIST Special Publication.

**Lun:2014:IZJ**

- [LR14] Yen Chi Lun and Fernando Rodrigo Rafaeli. Inequalities for zeros of Jacobi polynomials via Sturm’s theorem: Gautschi’s con-

jectures. *Numerical Algorithms*, 67(3):549–563, November 2014. CODEN NUALEG. ISSN 1017-1398 (print), 1572-9265 (electronic). URL <http://link.springer.com/article/10.1007/s11075-013-9807-7>.

**Pomerance:1994:NFS**

- [Pom94] C. Pomerance. The number field sieve. In W. Gautschi, editor, *Mathematics of Computation 1943–1993: A Half-Century of Computational Mathematics. Mathematics of Computation 50th Anniversary Symposium, August 9–13, 1993, Vancouver, British Columbia*, volume 48 of *Proceedings of symposia in applied mathematics*, pages 465–480. American Mathematical Society, Providence, RI, USA, 1994. ISBN 0-8218-0291-7, 0-8218-0353-0 (pt. 1), 0-8218-0354-9 (pt. 2). LCCN QA1 .A56 v.48 1994.

**Pozza:2018:LAC**

- [PPS18] Stefano Pozza, Miroslav S. Pranić, and Zdeněk Strakoš. The Lanczos algorithm and complex Gauss quadrature. *Electronic Transactions on Numerical Analysis*, 50:1–19, 2018. CODEN ???? ISSN 1068-9613 (print), 1097-4067 (electronic). URL <http://etna.mcs.kent.edu/vol.50.2018/pp1-19.dir/pp1-19.pdf>; <http://etna.mcs.kent.edu/volumes/2011-2020/vol50/abstract.php?vol=50&pages=1-19>.

**Qi:2008:WGI**

- [QG08] Feng Qi and Bai-Ni Guo. Wendel’s and Gautschi’s inequalities: Refinements, extensions, and a class of logarithmically completely monotonic functions. *Applied Mathematics and Computation*, 205(1):281–290, November 1, 2008. CODEN AMHCBQ. ISSN 0096-3003 (print), 1873-5649 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0096300308005377>.

**Qi:2009:CLC**

- [Qi09] Feng Qi. A class of logarithmically completely monotonic functions and application to the best bounds in the second Gautschi–Kershaw’s inequality. *Journal of Computational and Applied Mathematics*, 224(2):538–543, February 15, 2009. CODEN JCAMDI. ISSN 0377-0427 (print), 1879-1778 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0377042708002604>.

**Rutishauser:1990:LNLM**

- [RG90] Heinz Rutishauser and Martin Gutknecht, editors. *Lectures on numerical mathematics*. Birkhäuser Boston Inc., Cambridge, MA,

USA, 1990. ISBN 0-8176-3491-6. xv + 546 pp. LCCN QA297 .R8713 1990. Edited by Martin Gutknecht with the assistance of Peter Henrici, Peter Läuchli and Hans-Rudolf Schwarz, With a foreword by Gutknecht and a preface by Henrici, Läuchli and Schwarz, Translated from the German and with a preface by Walter Gautschi.

**Rice:1994:FBW**

- [Ric94] John R. Rice. Foreword [on the 65th birthday of Walter Gautschi]. In Zahar [Zah94b], pages ix–x. ISBN 0-8176-3753-2. LCCN QA221 .A634 1994.

**Rojas:1994:WIC**

- [Roj94] Raúl Rojas. Who invented the computer? The debate from the viewpoint of computer architecture. In Walter Gautschi, editor, *Mathematics of Computation 1943–1993: A Half Century of Computational Mathematics*, volume 48 of *Proceedings of Symposia in Applied Mathematics*, pages 361–365. American Mathematical Society, Providence, RI, USA, 1994.

**Stoer:1993:INA**

- [SB93] Josef Stoer and Roland Bulirsch. *Introduction to numerical analysis*, volume 12 of *Texts in Applied Mathematics*. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., second edition, 1993. ISBN 0-387-97878-X (New York), 3-540-97878-X (Berlin). xiii + 660 pp. LCCN QA297 .S8213 1993. Translated from the German by R. Bartels, W. Gautschi and C. Witzgall.

**Schneider:1981:HAM**

- [SDGT81] Hans Schneider, Chandler Davis, Walter Gautschi, and Olga Taussky Todd. Honoring Alexander M. Ostrowski. *Linear Algebra and its Applications*, 38(??):3, June 1981. CODEN LAAPAW. ISSN 0024-3795 (print), 1873-1856 (electronic). URL <http://www.sciencedirect.com/science/article/pii/0024379581900021>.

**Segura:2006:ROP**

- [Seg06] Javier Segura. Review of *Orthogonal Polynomials: Computation and Approximation* by Walter Gautschi. *SIAM Review*, 48(2): 431–433, June 2006. CODEN SIREAD. ISSN 0036-1445 (print), 1095-7200 (electronic). URL <https://www.jstor.org/stable/20453824>.

**Skovgaard:1975:RBF**

- [Sko75] Ove Skovgaard. Remark on “Algorithm 236: Bessel Functions of the First Kind [S17]”. *ACM Transactions on Mathematical Software*, 1

(3):282–284, September 1975. CODEN ACMSCU. ISSN 0098-3500 (print), 1557-7295 (electronic). See [Gau64b].

**Stetter:1999:BRN**

- [Ste99] Hans J. Stetter. Book reviews: *Numerical analysis, an introduction*, by Walter Gautschi. *Mathematics of Computation*, 68(226):887, April 1999. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic). URL <http://www.ams.org/jourcgi/jour-pbprocess?fn=110&arg1=S0025-5718-99-01060-1&u=/mcom/1999-68-226/>.

**Shi:2019:EGT**

- [SW19] Wei Shi and Xinyuan Wu. Explicit Gautschi-type integrators for nonlinear multi-frequency oscillatory second-order initial value problems. *Numerical Algorithms*, 81(4):1275–1294, August 2019. CODEN NUALEG. ISSN 1017-1398 (print), 1572-9265 (electronic).

**Townsend:2016:ROP**

- [Tow16] Alex Townsend. A review of *Orthogonal Polynomials in MATLAB: Exercises and Solutions* by Gautschi. Web document., November 5, 2016. URL <http://pi.math.cornell.edu/~ajt/papers/Gautschi.pdf>.

**Weideman:1995:ECE**

- [Wei95] J. A. C. Weideman. Erratum: “Computation of the complex error function” [SIAM J. Numer. Anal. **7** (1970), no. 1, 187–198]. *SIAM Journal on Numerical Analysis*, 32(1):330–331, February 1995. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). See [Gau70a].

**Wong:1990:ACA**

- [Won90] R. (Roderick) Wong, editor. *Asymptotic and Computational Analysis: Conference in Honor of Frank W. J. Olver’s 65th Birthday*, volume 124 of *Lecture Notes in Pure and Applied Mathematics*. Marcel Dekker, New York, NY, USA, 1990. ISBN 0-8247-8347-6. LCCN QA299.6 .A88 1990. URL <http://www.loc.gov/catdir/enhancements/fy0647/90002810-d.html>.

**Xu:2016:EEE**

- [XDY16] Zhiguo Xu, Xuanchun Dong, and Yongjun Yuan. Error estimates in the energy space for a Gautschi-type integrator spectral discretization for the coupled nonlinear Klein–Gordon equations. *Journal of Computational and Applied Mathematics*, 292(??):402–416,

January 15, 2016. CODEN JCAMDI. ISSN 0377-0427 (print), 1879-1778 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0377042715003799>.

**Zahar:1994:IBW**

- [Zah94a] R. V. M. Zahar. Introduction [on the 65th birthday of Walter Gautschi]. In Zahar [Zah94b], pages xi–xvi. ISBN 0-8176-3753-2. LCCN QA221 .A634 1994.

**Zahar:1994:ACF**

- [Zah94b] R. V. M. (Ramsay Vincent Michael) Zahar, editor. *Approximation and computation: a Festschrift in honor of Walter Gautschi: proceedings of the Purdue conference, December 2–5, 1993*, volume 119 of *International series of numerical mathematics*. Birkhäuser, Cambridge, MA, USA; Berlin, Germany; Basel, Switzerland, 1994. ISBN 0-8176-3753-2. LCCN QA221 .A634 1994.

**Zahar:1994:PWG**

- [Zah94c] R. V. M. (Ramsay Vincent Michael) Zahar. Publications of Walter Gautschi. In *Approximation and computation: a Festschrift in honor of Walter Gautschi: proceedings of the Purdue conference, December 2–5, 1993* [Zah94b], pages xxxvi–xlvi. ISBN 0-8176-3753-2. LCCN QA221 .A634 1994.