

- Abduganiev, M., Azimov, R., & Muydinov, L. 2023. "Digital Processing Algorithms of Biomedical Signals Using Cubic Base Splines." In *Intelligent Human Computer Interaction*, edited by Zaynidinov, H., Singh, M., Tiwary, U. S., & Singh, D., 18–26. Cham: Springer Nature Switzerland. https://doi.org/10.1007/978-3-031-27199-1_3.
- Abdulhameed, A. F., & Memon, Q. A. 2021. "An Improved Trapezoidal Rule for Numerical Integration." *Journal of Physics: Conference Series* 2090 (1): 012104. <https://doi.org/10.1088/1742-6596/2090/1/012104>.
- Agarwal, R. P., & Wong, P. J. Y. 1993. "Spline Interpolation." In *Error Inequalities in Polynomial Interpolation and Their Applications*, 281–362. Dordrecht: Springer Netherlands. https://doi.org/10.1007/978-94-011-2026-5_6.
- Allen, M. B., & Isaacson, E. L. 2019. "Numerical Integration." In *Numerical Analysis for Applied Science*, 363–401. John Wiley & Sons, Ltd. <https://doi.org/10.1002/9781119245767.ch7>.
- Altham, P. M. E. 1969. "Exact Bayesian Analysis of a 2 x 2 Contingency Table, and Fisher's 'Exact' Significance Test." *Journal of the Royal Statistical Society. Series B (Methodological)* 31 (2): 261–69. <http://www.jstor.org/stable/2984209>.
- . 1978. "Two Generalizations of the Binomial Distribution." *Journal of the Royal Statistical Society. Series C (Applied Statistics)* 27 (2): 162–67. <http://www.jstor.org/stable/2346943>.
- Bach, F. 2021. "On the Effectiveness of Richardson Extrapolation in Data Science." *SIAM Journal on Mathematics of Data Science* 3 (4): 1251–77. <https://doi.org/10.1137/21M1397349>.
- Baillo, A., & Cárcamo, J. 2025. "Bootstrap Tests for Almost Goodness-of-Fit." *Statistics and Computing* 36 (1): 10. <https://doi.org/10.1007/s11222-025-10762-z>.
- Batir, N. 2008. "On Some Properties of the Gamma Function." *Expositiones Mathematicae* 26 (2): 187–96. <https://doi.org/10.1016/j.exmath.2007.10.001>.
- Behnke, J., & Behnke, N. 2006. "Verteilungen, Die von Der Standardnormalverteilung Abgeleitet Werden Können." In *Grundlagen Der Statistischen Datenanalyse: Eine Einführung für Politikwissenschaftler*, 344–55. Wiesbaden: VS Verlag für Sozialwissenschaften. https://doi.org/10.1007/978-3-531-90003-2_26.
- Benzon, B. 2021. "The Normal Distribution, an Epistemological View." *St Open* 2 (July): 1–16. <https://doi.org/10.48188/so.26>.
- Bera, A. K., Galvo, A. F., Wang, L., & Xiao, Z. 2016. "A New Characterization Of The Normal Distribution And Test For Normality." *Econometric Theory* 32 (5): 1216–52. <http://www.jstor.org/stable/43948011>.
- Bickel, P. J., & Ren, J.-J. 2001. "The Bootstrap in Hypothesis Testing." *Lecture Notes-Monograph Series* 36: 91–112. <http://www.jstor.org/stable/4356107>.
- Bickel, P. J., & Yahav, J. A. 1988. "Richardson Extrapolation and the Bootstrap." *Journal of the American Statistical Association* 83 (402): 387–93. <http://www.jstor.org/stable/228854>.
- Bond, C. F., & Richardson, K. 2004. "Seeing the Fisher Z-transformation." *Psychometrika* 69 (2): 291–303. <https://doi.org/10.1007/BF02295945>.
- Borwein, J. M., & Corless, R. M. 2018. "Gamma and Factorial in the Monthly." *The American Mathematical Monthly* 125 (5): 400–424. <https://www.jstor.org/stable/48663320>.
- Bowring, A., Telschow, F. J. E., Schwartzman, A., & Nichols, T. E. 2021. "Confidence Sets for Cohen's d Effect Size Images." *NeuroImage* 226: 117477. <https://doi.org/10.1016/j.neuroimage.2020.117477>.
- Brandmaier, A. M. 2025. "Stop Calling Cohen's d an Effect Size." *PsyArXiv*. https://doi.org/10.31234/osf.io/n9ta7_v1.
- Breitenberger, E. 1963. "Analogues of the Normal Distribution on the Circle and the Sphere." *Biometrika* 50 (1/2): 81–88. <http://www.jstor.org/stable/2333749>.
- Brereton, R. G. 2014. "The Normal Distribution." *Journal of Chemometrics* 28 (11): 789–92. <https://doi.org/10.1002/cem.2655>.
- . 2015. "The F distribution and its relationship to the chi squared and t distributions." *Journal of Chemometrics* 29 (11): 582–86. <https://doi.org/10.1002/cem.2734>.
- Brigola, R. 2025. *Fourier Analysis and Distributions*. 1st ed. Texts in Applied Mathematics. Cham: Springer. <https://doi.org/10.1007/978-3-031-81311-5>.
- Büchter, A., & Henn, H.-W. 2010. "Grenzwerte von Riemann'schen Summen: Das Integral." In *Elementare Analysis: Von Der Anschauung Zur Theorie*, 221–35. Heidelberg: Spektrum Akademischer Verlag. https://doi.org/10.1007/978-3-8274-2680-2_6.
- Bujang, N., Nasir, M. A. S., & Ijam, H. M. 2025. "Numerical Integration of Function Using the Modified Trapezoidal Rule and Mean Averaging Method." *AIP Conference Proceedings* 3338 (1): 040010. <https://doi.org/10.1063/5.0294833>.
- Cacoullos, T. 1965. "A Relation Between t and F-Distributions." *Journal of the American Statistical Association* 60 (310): 528–31. <http://www.jstor.org/stable/2282687>.
- Camilli, G. 1995. "The Relationship Between Fisher's Exact Test and Pearson's Chi-Square Test: A Bayesian Perspective." *Psychometrika* 60 (2). <https://doi.org/10.1007/BF02301418>.
- Canal, L. 2005. "A Normal Approximation for the Chi-Square Distribution." *Computational Statistics & Data Analysis* 48 (4): 803–8. <https://doi.org/10.1016/j.csda.2004.04.001>.
- Carbonell, F., Worsley, K. J., & Trujillo-Barreto, N. J. 2009. "On the Fisher's Z transformation of correlation random fields." *Statistics & Probability Letters* 79 (6): 780–88. <https://doi.org/10.1016/j.spl.2008.11.007>.
- Chattamvelli, R., & Shannigrahi, R. 2021. "F Distribution." In *Continuous Distributions in Engineering and the Applied Sciences – Part II*, 227–34. Cham: Springer International Publishing. https://doi.org/10.1007/978-3-031-02435-1_7.
- Cheng, F., & Barsky, B. A. 1991. "Interpolation: Interpolation and Approximation Using Cubic Spline Curves." *Computer-Aided Design* 23 (10): 700–706. [https://doi.org/10.1016/0010-4485\(91\)90023-P](https://doi.org/10.1016/0010-4485(91)90023-P).
- Chiaroni, G., Sparacino, L., Antonacci, Y., Faes, L., & Mesin, L. 2023. "Connectivity Analysis in EEG Data: A Tutorial Review of the State of the Art and Emerging Trends." *Bioengineering (Basel, Switzerland)* 10 (3). <https://doi.org/10.3390/bioengineering10030372>.
- Chung, K. L. 1974. "Poisson and Normal Distributions." In *Elementary Probability Theory with Stochastic Processes*, 192–239. New York, NY: Springer. https://doi.org/10.1007/978-1-4757-3973-2_7.
- Cohen, J. 1977. *Statistical Power Analysis for the Behavioral Science*. Amsterdam: Elsevier Academic Press. <https://doi.org/10.1016/C2013-0-10517-X>.
- . 1988. *Statistical Power Analysis for the Behavioral Science*. 2nd ed. Hillsdale, NJ: Lawrence Erlbaum Associates. <https://doi.org/10.4324/9780203771587>.
- . 1992. "A Power Primer." *Psychological Bulletin* 112 (1): 155–59. <https://doi.org/10.1037/0033-295X.112.1.155>.
- Collani, E., & Dräger, K. 2001. *Binomial Distribution Handbook for Scientists and Engineers*. 1st ed. Graduate Texts in Mathematics. Boston, MA: Birkhäuser. <https://doi.org/10.1007/978-1-4612-0215-8>.
- Congedo, M., Özén, C., & Sherlin, L. 2002. "Notes on EEG Resampling by Natural Cubic Spline Interpolation." *Journal of Neurotherapy* 6 (4): 73–80. https://doi.org/10.1300/J184v06n04_08.
- Crow, E. L. 1958. "The Mean Deviation of the Poisson Distribution." *Biometrika* 45 (3/4): 556–59. <http://www.jstor.org/stable/2333201>.
- Das, A. 2025. "New Methods to Compute the Generalized Chi-Square Distribution." <https://arxiv.org/abs/2404.05062>.
- David, F. N. 1949. "The Moments of the z and F Distributions." *Biometrika* 36 (3/4): 394–403. <http://www.jstor.org/stable/2332676>.
- Davis, P. J. 1959. "Leonard Euler's Integral: A Historical Profile of the Gamma Function: In Memoriam: Milton Abramowitz." *The American Mathematical Monthly* 66 (10): 849–69. <http://www.jstor.org/stable/2309786>.
- Dubeau, F. 2019. "A Remark on Richardson's Extrapolation Process and Numerical Differentiation Formulae." *Journal of Computational Physics: X* 2: 100017. <https://doi.org/10.1016/j.jcpx.2019.100017>.
- Efron, B. 1979. "Bootstrap Methods: Another Look at the Jackknife." *The Annals of Statistics* 7 (1): 1–26. <https://doi.org/10.1214/aos/1176344552>.
- . 1981. "Nonparametric Estimates of Standard Error: The Jackknife, the Bootstrap and Other Methods." *Biometrika* 68 (3): 589–99. <https://doi.org/10.1093/biomet/68.3.589>.
- . 1982. *The Jackknife, the Bootstrap and Other Resampling Plans*. CBMS-NSF Regional Conference Series in Applied Mathematics, Monograph 38. Philadelphia: SIAM, Society for Industrial and Applied Mathematics. <https://doi.org/10.1137/1.9781611970319>.
- Eidous, O. 2025. "Does the Bootstrap Method Effectively Evaluate Estimators?" *ResearchGate*, September. <https://doi.org/10.13140/RG.2.2.12238.11846>.
- Epperson, J. F. 2021. "Interpolation and Approximation." In *An Introduction to Numerical Methods and Analysis*, 101–48. John Wiley & Sons, Ltd. <https://doi.org/10.1002/9781119045704.ch4>.
- Farin, G. 1994. "Kubische Spline-Interpolation." In *Kurven Und Flächen Im Computer Aided Geometric Design: Eine Praktische Einführung*, 104–21. Wiesbaden: Vieweg+Teubner Verlag. https://doi.org/10.1007/978-3-663-16062-9_9.
- Finkelstein, D., Mal'yarenko, A., Mishura, Y., & Ralchenko, K. 2025. "Entropies of the Poisson Distribution as Functions of Intensity: 'Normal' and 'Anomalous' Behavior." *Methodology and Computing in Applied Probability* 27 (2): 45. <https://doi.org/10.1007/s11009-025-10179-1>.
- Forster, O., & Lindemann, F. 2023. "Das Riemannsche Integral." In *Analysis 1: Differential- und Integralrechnung einer Veränderlichen*, 283–302. Wiesbaden: Springer Fachmedien. https://doi.org/10.1007/978-3-658-40130-6_18.
- Fredenhagen, S., Oberle, H. J., & Opfer, G. 1999. "On the Construction of Optimal Monotone Cubic Spline Interpolations." *Journal of Approximation Theory* 96 (2): 182–201. <https://doi.org/10.1006/jath.1998.3247>.
- French, C. C. & Graham, J. B. 1984. "A Critical Review of EEG Coherence Studies of Hemisphere Function." *International Journal of Psychophysiology* 1 (3): 241–54. [https://doi.org/10.1016/0167-8760\(84\)90044-8](https://doi.org/10.1016/0167-8760(84)90044-8).
- Fritz, C. O., Morris, P. E., & Richler, J. J. 2012. "Effect Size Estimates: Current Use, Calculations, and Interpretation." *Journal of Experimental Psychology: General* 141 (1): 2–18. <https://doi.org/10.1037/a0024338>.
- García-García, J. I., Fernández Coronado, N. A., Arredondo, E. H., & Imilpán Rivera, I. A. 2022. "The Binomial Distribution: Historical Origin and Evolution of Its Problem Situations." *Mathematics* 10 (15). <https://doi.org/10.3390/math10152680>.
- Gentle, J. E. 2024. *Matrix Algebra: Theory, Computations and Applications in Statistics*. 3rd ed. Springer Texts in Statistics. Cham: Springer. <https://doi.org/10.1007/978-3-031-42144-0>.
- Gerlach, S. 2019. "Programmieren in C." In *Computerphysik: Einführung, Beispiele und Anwendungen*, 31–54. Berlin, Heidelberg: Springer. https://doi.org/10.1007/978-3-662-59246-5_4.
- Gerthsen, C. 1966. *Physik: Ein Lehrbuch Zum Gebrauch Neben Vorlesungen*. Edited by Kneser, H. O. 9th ed. Berlin, Heidelberg: Springer. <https://doi.org/10.1007/978-3-662-30201-9>.
- Goel, S. K., & Rodriguez, D. M. 1987. "A Note on Evaluating Limits Using Riemann Sums." *Mathematics Magazine* 60 (4): 225–28. <http://www.jstor.org/stable/2689344>.
- González-Morris, G., & Horton, I. 2024. *Beginning C: From Beginner to Pro*. 7th ed. Berkeley, CA: Apress. <https://doi.org/10.1007/978-981-8688-0149-5>.
- Grafakos, L. 2024. *Fundamentals of Fourier Analysis*. 1st ed. Graduate Texts in Mathematics. Cham: Springer. <https://doi.org/10.1007/978-3-031-56500-7>.
- Grcar, J. F. 2011. "How Ordinary Elimination Became Gaussian Elimination." *Historia Mathematica* 38 (2): 163–218. <https://doi.org/10.1016/j.hm.2010.06.003>.
- Gronwall, T. H. 1918. "The Gamma Function in the Integral Calculus." *Annals of Mathematics* 20 (2): 35–124. <http://www.jstor.org/stable/1967180>.
- Groß, J., & Möller, A. 2023. "A Note on Cohen's d from a Partitioned Linear Regression Model." *Journal of Statistical Theory and Practice* 17 (2): 22. <https://doi.org/10.1007/s42519-023-00323-w>.
- . 2024. "Some Additional Remarks on Statistical Properties of Cohen's d in the Presence of Covariates." *Statistical Papers* 65 (6): 3971–79. <https://doi.org/10.1007/s00362-023-01527-9>.
- Guevara, M., Hernández-González, M., Sanz-Martín, A., & Amezcua, C. 2021. "EEGcorco: A Computer Program to Simultaneously Calculate and Statistically Analyze EEG Coherence and Correlation." *Journal of Biomedical Science and Engineering* 4. <https://doi.org/10.4236/jbise.2011.412096>.
- Guillemin, V. W., & Stroock, D. W. 2008. "Some Riemann Sums Are Better Than Others." In *Representations, Wavelets, and Frames: A Celebration of the Mathematical Work of Lawrence w. Baggett*, edited by Jorgenson, P. E. T., Merrill, K. D., & Packer, J. A., 3–12. Boston, MA: Birkhäuser. https://doi.org/10.1007/978-0-8176-4683-7_1.
- Hafner, R. 1992. "Der Chi-Quadrat-Test." In *Statistik: Für Sozial- Und Wirtschaftswissenschaftler*, 164–70. Vienna: Springer. https://doi.org/10.1007/978-3-7091-3420-7_14.
- Haight, F. A. 1967. *Handbook of the Poisson Distribution*. Operations Research Society of America. Publications in Operations Research. Wiley. <https://books.google.com/books?id=l8Y-AAAAIAAJ>.
- Hall, P. 2003. "A Short Prehistory of the Bootstrap." *Statistical Science* 18 (2): 158–67. <http://www.jstor.org/stable/3182845>.
- Hassler, U. 2007. "Riemann-Integrale." In *Stochastische Integration und Zeitreihenmodellierung: Eine Einführung mit Anwendungen aus Finanzierung und Ökonometrie*, 137–53. Berlin, Heidelberg: Springer. https://doi.org/10.1007/978-3-540-73568-7_7.
- Herrmann, D. 1983. "Romberg-Integration." In *Numerische Mathematik — 40 BASIC-Programme*, 84–88. Wiesbaden: Vieweg+Teubner Verlag. https://doi.org/10.1007/978-3-322-96321-5_27.
- . 1984. "F-Verteilung." In *Wahrscheinlichkeitsrechnung Und Statistik — 30 BASIC-Programme*, 40–41. Wiesbaden: Vieweg+Teubner Verlag. https://doi.org/10.1007/978-3-322-96320-8_21.
- . 2001. "System-Programmierung (MS-DOS)." In *Effektiv Programmieren in C und C++: Eine aktuelle Einführung mit Beispielen aus Mathematik, Naturwissenschaft und Technik*, 295–318. Wiesbaden: Vieweg+Teubner Verlag. https://doi.org/10.1007/978-3-322-94365-1_16.
- Hershberger, S. L. 2014. "Exact Methods for Categorical Data." In *Wiley StatsRef: Statistics Reference Online*. John Wiley & Sons, Ltd. <https://doi.org/10.1002/9781118445112.stat06165>.
- Hjelm, H. F., & Norris, R. C. 1962. "Empirical Study of the Efficacy of Fisher's Z-Transformation." *The Journal of Experimental Education* 30 (3): 269–77. <http://www.jstor.org/stable/20156574>.
- Horowitz, Joel L. 2001. "Chapter 52 - The Bootstrap." In, edited by Heckman, J. J., & Leamer, E., 5:315–328. *Handbook of Econometrics*. Elsevier. [https://doi.org/10.1016/S0151-4110\(00\)5005-X](https://doi.org/10.1016/S0151-4110(00)5005-X).
- Izzo, F., Runborg, O., & Tsai, R. 2022. "Corrected Trapezoidal Rules for Singular Implicit Boundary Integrals." *Journal of Computational Physics* 461: 111193. <https://doi.org/10.1016/j.jcp.2022.111193>.
- Janczyk, M., & Pfister, R. 2013. "Fehlertypen, Effektstärken Und Power." In *Inferenzstatistik Verstehen: Von A Wie Signifikanztest Bis Wie Konfidenzintervall*, 77–90. Berlin, Heidelberg: Springer. https://doi.org/10.1007/978-3-642-34825-9_7.
- Jarre, F. 2025. "Cubic Spline Functions Revisited." *arXiv*. <https://doi.org/10.48550/arXiv.2507.05083>.
- . 2026. "Cubic Spline Functions Revisited." *Journal of Computational and Applied Mathematics* 478: 117240. <https://doi.org/10.1016/j.cam.2025.117240>.
- Jetter, K. 1984. "Ein Kurze Anmerkung Zur Romberg-Integration." *Numerische Mathematik* 45 (2). <https://doi.org/10.1007/BF01389471>.
- Jiang, H., & Zhao, Y. 2009. "The Study of Interpolation Algorithm Based on Cubic Spline in Marching Cubes Method." In *2009 Sixth International Conference on Fuzzy Systems and Knowledge Discovery*, 5:80–83. <https://doi.org/10.1109/FSKD.2009.591>.
- Jolicoeur, P. 1999. "The Poisson Distribution." In *Introduction to Biometry*, 124–33. Boston, MA: Springer. https://doi.org/10.1007/978-1-4615-4778-1_19.
- Joyce, P. 2019. *Numerical C: Applied Computational Programming with Case Studies*. 1st ed. Berkeley, CA: Apress. <https://doi.org/10.1007/978-1-4842-5064-8>.

- Kaier, E. 1990. "Referenz Zu MS-DOS." In *Informatik: Referenzbuch. Mit den vollständigen Befehlslisten zu MS-DOS, Turbo Pascal, dBase und Multiplan*, 1–12. Wiesbaden: Vieweg+Teubner Verlag. https://doi.org/10.1007/978-3-322-89035-1_1.
- Karpfinger, C. 2022a. "Calculating with Matrices." In *Calculus and Linear Algebra in Recipes: Terms, Phrases and Numerous Examples in Short Learning Units*, 87–100. Berlin, Heidelberg: Springer Berlin Heidelberg. https://doi.org/10.1007/978-3-662-65458-3_10.
- . 2022b. "L-r-Zerlegung Einer Matrix." In *Höhere Mathematik in Rezepten: Begriffe, Sätze Und Zahlreiche Beispiele in Kurzen Lerneinheiten*, 107–17. Berlin, Heidelberg: Springer Berlin Heidelberg. https://doi.org/10.1007/978-3-662-63305-2_11.
- Kenett, R., Zacks, S., & Gedeck, P. 2022. "Statistical Inference and Bootstrapping." In *Modern Statistics: A Computer-Based Approach with Python*, 139–223. Cham: Springer International Publishing. https://doi.org/10.1007/978-3-031-07566-7_3.
- Khosravi, F., Izbirak, G., & Shavarani, S. M. 2021. "Application of Bootstrap Re-Sampling Method in Statistical Measurement of Sustainability." *Socio-Economic Planning Sciences* 75: 100781. <https://doi.org/10.1016/j.seps.2020.100781>.
- Kleiner, A., Talwalkar, A., Sarkar, P., & Jordan, M. I. 2014. "A Scalable Bootstrap for Massive Data." *Journal of the Royal Statistical Society. Series B (Statistical Methodology)* 76 (4): 795–816. <http://www.jstor.org/stable/2474569>.
- Koepf, W. 2014. "The Gamma Function." In *Hypergeometric Summation: An Algorithmic Approach to Summation and Special Function Identities*, 1–10. London: Springer. https://doi.org/10.1007/978-1-4471-6464-7_1.
- Kumar, J. S., & Bhuvaneswari, P. 2012. "Analysis of Electroencephalography (EEG) Signals and Its Categorization—a Study." *Procedia Engineering* 38: 2525–36. <https://doi.org/10.1016/j.proeng.2012.06.298>.
- Leaver, R. H., & Thomas, T. R. 1974. "Normal Distribution." In *Analysis and Presentation of Experimental Results*, 30–37. London: Macmillan Education UK. https://doi.org/10.1007/978-1-349-01942-7_4.
- Lewis, J. T., Osgood, C. F., & Shisha, O. 1978. "Infinite Riemann Sums, the Simple Integral, and the Dominated Integral." In *General Inequalities 1 / Allgemeine Ungleichungen 1: Proceedings of the First International Conference on General Inequalities Held in the Mathematical Research Institute at Oberwolfach, Black Forest, May 10–14, 1976 / Abhandlung Zur Ersten Internationalen Tagung über Allgemeine Ungleichungen Im Mathematischen Forschungsinstitut Oberwolfach, Schwarzwald Vom 10. Bis 14. Mai 1976*, edited by Beckenbach, E. F., 233–42. Basel: Birkhäuser. https://doi.org/10.1007/978-3-0348-5563-1_25.
- Li, J. C.-H. 2016. "Effect Size Measures in a Two-Independent-Samples Case with Nonnormal and Nonhomogeneous Data." *Behavior Research Methods* 48 (4): 1560–74. <https://doi.org/10.3758/s13428-015-0667-z>.
- Liu, X. S. 2025. "Bootstrap Power Calculation: A Flexible Alternative to Conventional Power Analysis for Prospective and Replication Studies." *Behaviormetrika*. <https://doi.org/10.1007/s41237-025-00283-4>.
- Luke, Y. L., ed. 1969. "Chapter XV Trapezoidal Rule Integration Formulas." In *The Special Functions and Their Approximations*, 53:214–26. Mathematics in Science and Engineering. Elsevier. [https://doi.org/10.1016/S0076-5392\(09\)60075-8](https://doi.org/10.1016/S0076-5392(09)60075-8).
- Lyon, A. 2014. "Why Are Normal Distributions Normal?" *The British Journal for the Philosophy of Science* 65 (3): 621–49. <https://doi.org/10.1093/bjps/axo046>.
- Machado, J. A. F., & Parente, P. 2005. "Bootstrap Estimation of Covariance Matrices via the Percentile Method." *The Econometrics Journal* 8 (1): 70–78. <http://www.jstor.org/stable/23114968>.
- Magnus, W., Oberhettinger, F., & Soni, R. P. 1966a. "The Gamma Function and Related Functions." In *Formulas and Theorems for the Special Functions of Mathematical Physics*, 1–37. Berlin, Heidelberg: Springer. https://doi.org/10.1007/978-3-662-11761-3_1.
- . 1966b. "The Hypergeometric Function." In *Formulas and Theorems for the Special Functions of Mathematical Physics*, 37–65. Berlin, Heidelberg: Springer. https://doi.org/10.1007/978-3-662-11761-3_2.
- Massart, D. L., Vandeginste, B. G. M., Buydens, L. M. C., De Jong, S., Lewi, P. J., & Smeyers-Verbeke, J., ed. 1998. "Chapter 3 The Normal Distribution." In *Handbook of Chemometrics and Qualimetrics: Part a*, 20–47–72. Data Handling in Science and Technology. Elsevier. [https://doi.org/10.1016/S0922-3487\(97\)80033-0](https://doi.org/10.1016/S0922-3487(97)80033-0).
- Mendoza, J. L. 1993. "Fisher Transformations for Correlations Corrected for Selection and Missing Data." *Psychometrika* 58 (4): 601–15. <https://doi.org/10.1007/BF02294830>.
- Meschede, D., ed., Feld, L., Gross, R., Müller, R., Niedner-Schatzberg, G., Schäfer, G., Sokolowski, M., Wewinger, F., Reinhard F., Werner, F., & Zohm, H. 2026. *Gerthsen Physik*. 26th ed. Berlin, Heidelberg: Spektrum. <https://doi.org/10.1007/978-3-662-30201-9>.
- Meyberg, K., & Vachenauer, P. 2001a. *Höhere Mathematik 1: Differential- Und Integralrechnung Vektor- Und Matrizenrechnung*. Berlin, Heidelberg: Springer Berlin Heidelberg. https://doi.org/10.1007/978-3-642-56654-7_4.
- . 2001b. "Integration." In *Höhere Mathematik 1: Differential- Und Integralrechnung Vektor- Und Matrizenrechnung*, 161–211. Berlin, Heidelberg: Springer Berlin Heidelberg. https://doi.org/10.1007/978-3-642-56654-7_4.
- Micheloyannis, S., Pachou, E., Stam, C. J., Vourkas, M., Erimaki, S., & Tsirka, V. 2006. "Using Graph Theoretical Analysis of Multi Channel EEG to Evaluate the Neural Efficiency Hypothesis." *Neuroscience Letters* 402 (3): 273–77. <https://doi.org/10.1016/j.neulet.2006.04.006>.
- Miller, T. R., Hendrie, D., & Derzon, J. 2011. "Exact Method for Computing Absolute Percent Change in a Dichotomous Outcome from Meta-Analytic Effect Size: Improving Impact and Cost-Outcome Estimates." *Value in Health* 14 (1): 144–51. <https://doi.org/10.1016/j.vahr.2010.10.013>.
- Molinari, L. 1977. "Distribution of the Chi-Squared Test in Nonstandard Situations." *Biometrika* 64 (1): 115–21. <http://www.jstor.org/stable/2335780>.
- Moon, B. S. 2001. "An Explicit Solution for the Cubic Spline Interpolation for Functions of a Single Variable." *Applied Mathematics and Computation* 117 (2): 251–55. [https://doi.org/10.1016/S0096-3003\(99\)00178-2](https://doi.org/10.1016/S0096-3003(99)00178-2).
- Mulholland, H., & Jones, C. R. 1968a. "Elementary Probability." In *Fundamentals of Statistics*, 32–58. Boston, MA: Springer US. https://doi.org/10.1007/978-1-4899-6507-3_3.
- . 1968b. "The Normal Distribution." In *Fundamentals of Statistics*, 122–38. Boston, MA: Springer US. https://doi.org/10.1007/978-1-4899-6507-3_8.
- Neher, M. 2024. "Numerische Integration." In *Numerische Mathematik: Eine anschauliche modulare Einführung*, 195–222. Berlin, Heidelberg: Springer. https://doi.org/10.1007/978-3-662-68815-1_7.
- Neubauer, A. C., & Fink, A. 2009. "Intelligence and Neural Efficiency." *Neuroscience & Biobehavioral Reviews* 33 (7): 1004–23. <https://doi.org/10.1016/j.neubiorev.2009.04.001>.
- Neubauer, A. C., Fink, A., & Schrausser, D. G. 2002. "Intelligence and Neural Efficiency: The Influence of Task Content and Sex on the Brain–IQ Relationship." *Intelligence* 30 (6): 515–36. [https://doi.org/10.1016/S0160-2896\(02\)00091-0](https://doi.org/10.1016/S0160-2896(02)00091-0).
- Neubauer, A. C., Grabner, R. H., Fink, A., & Neuper, C. 2005. "Intelligence and Neural Efficiency: Further Evidence of the Influence of Task Content and Sex on the Brain–IQ Relationship." *Cognitive Brain Research* 25 (1): 217–25. <https://doi.org/10.1016/j.cogbrainres.2005.05.011>.
- Panitz, C., Ward, R. T., Pouliot, J., & Keil, A. 2024. "EEG and ERP." In *The Cambridge Handbook of Research Methods and Statistics for the Social and Behavioral Sciences: Volume 2: Performing Research*, edited by Edlund, J. E., & Nichols, A. L., 519–44. Cambridge Handbooks in Psychology. Cambridge University Press. <https://doi.org/10.1017/9781009000796.024>.
- Panov, G. 2023. "Quantitative EEG Analysis: Introduction and Basic Principles." In *Computational Neuroscience*, edited by Stoyanov, D., Draganski, B., Brambilla, P., & Lamm, C., 85–91. New York, NY: Springer US. https://doi.org/10.1007/978-1-0716-3230-7_5.
- Patnaik, P. B. 1949. "The Non-Central χ^2 - and F-Distribution and their Applications." *Biometrika* 36 (1/2): 202–32. <http://www.jstor.org/stable/2332542>.
- Peng, C.-Y. J., & Chen, L.-T. 2014. "Beyond Cohen's d: Alternative Effect Size Measures for Between-Subject Designs." *The Journal of Experimental Education* 82 (1): 22–50. <https://www.jstor.org/stable/26594399>.
- Perrin, F., Pernier, J., Bernhard, O., Giard, M. H., & Echallier, J. F. 1987. "Mapping of Scalp Potentials by Surface Spline Interpolation." *Electroencephalography and Clinical Neurophysiology* 66 (1): 75–81. [https://doi.org/10.1016/0013-4694\(87\)90141-6](https://doi.org/10.1016/0013-4694(87)90141-6).
- Pewsey, A. 2018. "Exploring the Limits of Bootstrap." *Journal of the Royal Statistical Society Series D: The Statistician* 43 (1): 215–16. <https://doi.org/10.2307/2348962>.
- Philippou, A. N., & Antzoulakos, D. L. 2025. "Binomial Distribution." In *International Encyclopedia of Statistical Science*, edited by Lovric, M., 306–9. Berlin, Heidelberg: Springer Berlin Heidelberg. https://doi.org/10.1007/978-3-662-69359-7_1.
- Politis, D. N. 1998. "Computer-Intensive Methods in Statistical Analysis." *IEEE Signal Processing Magazine* 15 (1): 39–55. <https://doi.org/10.1109/79.647042>.
- Politis, D. N. 2003. "The Impact of Bootstrap Methods on Time Series Analysis." *Statistical Science* 18 (2): 219–30. <https://doi.org/10.1214/ss/1063994977>.
- Rannacher, R. 1987. "Richardson Extrapolation with Finite Elements." In *Numerical Techniques in Continuum Mechanics: Proceedings of the Second GAMM-Seminar, Kiel, January 17 to 19, 1986*, edited by Hackbusch, W., & Witsch, K., 90–101. Wiesbaden: Vieweg+Teubner Verlag. https://doi.org/10.1007/978-3-322-85997-6_9.
- Rao, C. R., & Chakravarti, I.M. 1956. "Some Small Sample Tests of Significance for a Poisson Distribution." *Biometrika* 12 (3): 264–82. <http://www.jstor.org/stable/3001466>.
- Rasch, G. 1931. "Notes on the Gamma-Function." *Annals of Mathematics* 32 (3): 591–99. <http://www.jstor.org/stable/1968254>.
- Roy, V., & Shukla, S. 2017. "Effective EEG Motion Artifacts Elimination Based on Comparative Interpolation Analysis." *Wireless Personal Communications* 97 (4): 6441–51. <https://doi.org/10.1007/s11277-017-4846-3>.
- Rutishauser, H. 1990. "Interpolation." In *Lectures on Numerical Mathematics*, edited by Gutknecht, M., 128–74. Boston, MA: Birkhäuser Boston. https://doi.org/10.1007/978-1-4612-3468-5_6.
- Sachs, L. 1993. "Normalverteilung." In *Statistische Methoden: Planung Und Auswertung*, 41–54. Berlin, Heidelberg: Springer. https://doi.org/10.1007/978-3-642-77172-2_4.
- Saff, E. B., & Snider, A. D. 2025. *Matrix Fundamentals: From Equation Solving to Signal Processing*. 2nd ed. Cham: Springer. <https://doi.org/10.1007/978-3-031-97222-5>.
- Sanei, S. H., & Doostie, H. 2024. "Normal Distribution." In *Practical Biostatistics for Medical and Health Sciences*, 115–37. Singapore: Springer. https://doi.org/10.1007/978-981-97-3083-4_6.
- Sarrafz, M. 2008. "Visualization of Shaped Data by Cubic Spline Interpolation." In *Interactive Curve Modeling: With Applications to Computer Graphics, Vision and Image Processing*, 157–72. London: Springer London. https://doi.org/10.1007/978-1-84628-871-5_8.
- Saunders, I. W., & Moran, P. A. P. 1978. "On the quantiles of the gamma and F distributions." *Journal of Applied Probability* 15 (2): 426–32. <https://doi.org/10.2307/3213414>.
- Schäfer, T., & Schwarz, M. A. 2019. "The Meaningfulness of Effect Sizes in Psychological Research: Differences Between Sub-Disciplines and the Impact of Potential Biases." *Frontiers in Psychology* Volume 10 – 2019. <https://doi.org/10.3389/fpsyg.2019.00813>.
- Scherer, P. O. 2010. "Interpolation." In *Computational Physics: Simulation of Classical and Quantum Systems*, 15–27. Berlin, Heidelberg: Springer. https://doi.org/10.1007/978-3-642-13990-1_2.
- Schrausser, D. G. 2000a. "Spectral and Coherence Analysis: Algorithms." *Method*. ResearchGate. <https://doi.org/10.13140/RG.2.2.28637.90083>.
- . 2000b. "Development of a Parameter to Indicate the Focussing-Level of Cortical Activation." *Method*. ResearchGate. <https://doi.org/10.13140/RG.2.2.32114.17601>.
- . 2009. "ThetaWin Overview." Software. Academia. <https://www.academia.edu/81800920>.
- . 2023a. *Schrausser/ConsoleApp_DistributionFunctions*: Console applications for distribution functions. Zenodo. <https://doi.org/10.5281/zenodo.7664141>.
- . 2023b. *Schrausser/ConsoleApp_FEGF*: 2.0. Zenodo. <https://doi.org/10.5281/zenodo.10701350>.
- . 2023c. *Schrausser/ConsoleApp_Integral*: Console applications for integral and interpolation. Zenodo. <https://doi.org/10.5281/zenodo.7655056>.
- . 2023d. *Schrausser/ConsoleApp_Matrix*: Console applications for matrix calculation and tools. Zenodo. <https://doi.org/10.5281/zenodo.7655046>.
- . 2023e. *Schrausser/ConsoleApp_String*: Console applications for string and transformation. Zenodo. <https://doi.org/10.5281/zenodo.7653790>.
- . 2023f. *Schrausser/ConsoleApp_Tools*: Console tool applications. Zenodo. <https://doi.org/10.5281/zenodo.7655239>.
- . 2023g. *Schrausser/FunctionWin*: Windows Interface for distribution functions. Zenodo. <https://doi.org/10.5281/zenodo.7651660>.
- . 2023h. *Schrausser/ThetaWin*: Distribution simulator. Zenodo. <https://doi.org/10.5281/zenodo.7659263>.
- . 2024. *Handbook: Distribution Functions (Verteilungsfunktionen)*. PsyArXiv. <https://doi.org/10.31234/osf.io/rvzx4>.
- . 2025a. *HP_prime_MATH: Manual*. 1st ed. <https://doi.org/10.5281/zenodo.15713317>.
- . 2025b. "ThetaWin." Zenodo Software Documentation 2025 (11/23). <https://doi.org/10.5281/zenodo.17691241>.
- . 2025c. "Various Programs." Zenodo Software Documentation 2025 (11/28). <https://doi.org/10.5281/zenodo.17743756>.
- . 2025d. "FunktionWin: Windows Interface for Distribution Functions." Zenodo Software Documentation 2025 (12/10). <https://doi.org/10.5281/zenodo.17880113>.
- Schrausser, D. G., Fink, A., & Neubauer, A. C. 2001. "Intelligence and Neural Efficiency as Determined by EEG-Coherence." In *10th Biennial Meeting of the International Society for the Study of Individual Differences (ISSID)*. Edinburgh, UK: The University of Edinburgh. <https://doi.org/10.5281/zenodo.1373872>.
- Schwarz, H. R. 1997. "Integralberechnung." In *Numerische Mathematik*, 375–411. Wiesbaden: Vieweg+Teubner Verlag. https://doi.org/10.1007/978-3-663-01227-6_8.
- Selvin, S. 2014. "Distributions." In *Wiley StatsRef: Statistics Reference Online*. John Wiley & Sons, Ltd. <https://doi.org/10.1002/9781118445112.stat05856>.
- Shores, T. S. 2018. "MATRIX ALGEBRA." In *Applied Linear Algebra and Matrix Analysis*, 65–180. Cham: Springer International Publishing. https://doi.org/10.1007/978-3-319-74748-4_2.
- Shuster, J. J. 2014. "Hypergeometric Distribution: Introduction." In *Wiley StatsRef: Statistics Reference Online*. John Wiley & Sons, Ltd. <https://doi.org/10.1002/9781118445112.stat04869>.
- Sidi, A. 1988. "Generalizations of Richardson Extrapolation with Applications to Numerical Integration." In *Numerical Integration III: Proceedings of the Conference Held at the Mathematisches Forschungsinstitut, Oberwolfach, Nov. 8 – 14, 1987*, edited by Brass, H., & Hämerlin, G., 237–50. Basel: Birkhäuser. https://doi.org/10.1007/978-3-0348-6398-2_22.
- . 2003. "The Richardson Extrapolation Process and its Generalizations." In *Practical Extrapolation Methods: Theory and Applications*, 19–20. Cambridge Monographs on Applied and Computational Mathematics. Cambridge University Press. <https://doi.org/10.1017/CBO9780511546815>.
- Simonton, D. K. 1978. "Independent Discovery in Science and Technology: A Closer Look at the Poisson Distribution." *Social Studies of Science* 8 (4): 521–32. <http://www.jstor.org/stable/284821>.
- Siuly, S., Li, Y., & Zhang, Y. 2017. *EEG Signal Analysis and Classification*. 1st ed. Health Information Science. Cham: Springer. <https://doi.org/10.1007/978-3-319-47653-7>.
- Soufflet, L., Toussaint, M., Luthringer, R., Gresser, J., Minot, R., & Macher, J. P. 1991. "A Statistical Evaluation of the Main Interpolation Methods Applied to 3-Dimensional EEG Mapping." *Electroencephalography and Clinical Neurophysiology* 79 (5): 393–402. [https://doi.org/10.1016/0013-4694\(91\)90204-H](https://doi.org/10.1016/0013-4694(91)90204-H).
- Sprent, P. 2025. "The Fisher Exact Test." In *International Encyclopedia of Statistical Science*, edited by Lovric, M., 961–62. Berlin, Heidelberg: Springer. https://doi.org/10.1007/978-3-662-69359-9_693.

- Sreehari M. 1983. "A Characterization of the Geometric Distribution." *Journal of Applied Probability* 20 (1): 209–12. <http://www.jstor.org/stable/3213738>.
- Stahl, S. 2006. "The Evolution of the Normal Distribution." *Mathematics Magazine* 79 (2): 96–113. <http://www.jstor.org/stable/27642916>.
- Stange, K. 1970. "Die F-Verteilung." In *Angewandte Statistik: Erster Teil Eindimensionale Probleme*, 357–72. Berlin, Heidelberg: Springer. https://doi.org/10.1007/978-3-642-85602-0_11.
- Sun, M., Lan, L., Zhu C. G., & Lei, F. 2023. "Cubic Spline Interpolation with Optimal End Conditions." *Journal of Computational and Applied Mathematics* 425: 115039. <https://doi.org/10.1016/j.cam.2022.115039>.
- Talay, D., & Tubaro, L. 1990. "Romberg Extrapolations for Numerical Schemes Solving Stochastic Differential Equations." *Structural Safety* 8 (1): 143–50. [https://doi.org/10.1016/0167-4730\(90\)90036-O](https://doi.org/10.1016/0167-4730(90)90036-O).
- Thome, H. 1990. "GRUNDKURS STATISTIK FÜR HISTORIKER TEIL II: INDUKTIVE STATISTIK UND REGRESSIONSANALYSE." *Historical Social Research / Historische Sozialforschung. Supplement*, no. 3: 1–275. <http://www.jstor.org/stable/40986007>.
- Thomopoulos, N. T. 2017. "Geometric." In *Statistical Distributions: Applications and Parameter Estimates*, 127–33. Cham: Springer International Publishing. https://doi.org/10.1007/978-3-319-65112-5_15.
- Torchinsky, A. 2022. *A Modern View of the Riemann Integral*. 1st ed. Lecture Notes in Mathematics. Cham: Springer. <https://doi.org/10.1007/978-3-031-11799-2>.
- Török, C., Hudák, J., Pristaš, V., & Antoni, I. 2025. "Explicit Forms of Interpolating Cubic Splines and Data Smoothing." *Applied Mathematics and Computation* 500: 129411. <https://doi.org/10.1016/j.amc.2025.129411>.
- Tóth, G. 2011. "Destruction of Normal Distribution in Small Samples by Centering and Scaling." *Journal of Chemometrics* 25 (5): 247–53. <https://doi.org/10.1002/cem.1382>.
- Truc, J.-P. 2019. "Riemann Sums for Generalized Integrals." *The College Mathematics Journal* 50 (2): pp. 123–132. <https://www.jstor.org/stable/48662056>.
- Tsao, N.-K. 1977. "Newton Interpolation Is Efficient for Approximation of Linear Functionals." *Numerische Mathematik* 29 (1). <https://doi.org/10.1007/BF01389317>.
- Upton, G. J. G. 1992. "Fisher's Exact Test." *Journal of the Royal Statistical Society. Series A (Statistics in Society)* 155 (3): 395–402. <http://www.jstor.org/stable/2982890>.
- Vellaisamy, P., & Punnen, A. P. 2001. "On the Nature of the Binomial Distribution." *Journal of Applied Probability* 38 (1): 36–44. <http://www.jstor.org/stable/3215739>.
- von Petersdorff, T. 1993. "A Short Proof for Romberg Integration." *The American Mathematical Monthly* 100 (8): 783–85. <http://www.jstor.org/stable/2324787>.
- von Storch, H., & Zwiers, F. W. 1999. "Normal Density and Cumulative Distribution Function." In *Statistical Analysis in Climate Research*, 419–20. Cambridge University Press. <https://doi.org/10.1017/CBO9780511612336>.
- Wang, J. 2011. "A Simple Characterization of Student's Distributions and Normal Distributions." *Statistics & Probability Letters* 81 (8): 903–6. <https://doi.org/10.1016/j.spl.2011.03.037>.
- Wesolowski, B., & Musselwhite Thompson, D. 2018. "Normal Distribution." In *The SAGE Encyclopedia of Educational Research, Measurement, and Evaluation*, edited by Frey, B. B. USA: University of Kansas. <https://doi.org/10.4135/9781506326139.n476>.
- Wilcox, R. R. 2001. "The Bootstrap." In *Fundamentals of Modern Statistical Methods: Substantially Improving Power and Accuracy*, 93–115. New York, NY: Springer. https://doi.org/10.1007/978-1-4757-3522-2_6.
- . 2006. "Graphical Methods for Assessing Effect Size: Some Alternatives to Cohen's d." *The Journal of Experimental Education* 74 (4): 353–67. <http://www.jstor.org/stable/20157436>.
- Wilson, E. B., & Hilferty, M. M. 1931. "The Distribution of Chi-Square." *Proceedings of the National Academy of Sciences of the United States of America* 17 (12): 684–88. <http://www.jstor.org/stable/86022>.
- Yang, Z., Duan, Z., Wang, J., Wang, T., Song, Y., & Zhang, J. 2013. "Quadratic radical function better than Fisher Z transformation." *Transactions of Tianjin University* 5: 381–84. <https://doi.org/10.1007/s12209-013-1978-8>.
- Zhang, H., Zhou, Q.-Q., Chen, H., Hu, X.-Q., Li, W.-G., Bai, Y., Han, J.-X., Wang, Y., Liang, Z.-H., Chen, D., Cong, F.-Y., Yan, J.-Q., & Li, X.-L. 2023. "The Applied Principles of EEG Analysis Methods in Neuroscience and Clinical Neurology." *Military Medical Research* 10 (1). <https://doi.org/10.1186/s40779-023-00502-7>.
- Zhang, Y. 2025. "Poisson Distribution and Its Applications." *Advances in Economics, Management and Political Sciences* 196. <https://doi.org/10.54254/2754-1169/2025.BJ24761>.
- Zheng, Y., & Fan, H. 2025. "Fast Cluster Bootstrap Methods for Spatial Error Models." *Mathematics* 13 (18). <https://doi.org/10.3390/math13182913>.
- Zijlstra, M. 1983. "Characterizations of the Geometric Distribution by Distributional Properties." *Journal of Applied Probability* 20 (4): 843–50. <https://doi.org/10.2307/3213595>.
- Zinger, A. 1964. "On Interpolation in Tables of the F-Distribution." *Journal of the Royal Statistical Society. Series C (Applied Statistics)* 13 (1): 51–53. <http://www.jstor.org/stable/2985223>.
- Zou, L., Song, L., Wang, X., Weise, T., Chen, Y., & Zhang, C. 2020. "A New Approach to Newton-Type Polynomial Interpolation with Parameters." *Mathematical Problems in Engineering* 2020 (1): 9020541. <https://doi.org/10.1155/2020/9020541>.
- Zuev, K. M. 2026. "The Bootstrap Method." In *Fundamentals of Statistical Inference: Foundations of Data Analysis*, 115–29. Cham: Springer Nature Switzerland. https://doi.org/10.1007/978-3-032-03848-7_6.