

## References

- Numeric -

150 Years of Riemann Hypothesis, Advances in Number Theory and Geometry,  
Riemann International School of Mathematics (RISM), Lecture and  
Seminar Notes, Verbania, Italy, April 19-24 (2009).

- A -

Andrews, G. E., Number Theory, Dover Publications, Inc., New York, NY,  
USA (1971).

Apostol, T. M., Introduction to Analytic Number Theory, Springer  
Science+Business Media, Inc., New York, NY, USA (1973).

Apostol, T. M., “An Elementary View of Euler’s Summation Formula”, The  
American Mathematical Monthly, Mathematical Association of America,  
Vol. 106, No. 5, pp. 409-418, May 1 (1999).

Ayoub, R., “Euler and the Zeta Function”, American Mathematical Monthly, 81,  
No. 10, pp. 1067-1086 (1974).

- B -

Backlund, R. J., “Über die Nullstellen der Riemannschen Zetafunktion”, Acta  
Mathematica, 41, pp. 345-375 (1918).

Barbeau, E. J. and P. J. Leah, “Euler’s 1760 Paper on Divergent Series”, Historia  
Mathematica, Vol. 3, pp. 141-160 (1976).

Bender, C. M. and S. A. Orszag, Advanced Mathematical Methods for Scientists  
and Engineers, Asymptotic Methods and Perturbation Theory, Springer-  
Verlag, New York, NY, USA (1999).

Bernoulli, J., Ars Conjectandi, Tractatus de Seriebus Infinitis, (The Art of  
Conjecture, Essay on Infinite Series), posthumous publication, Basel,  
Switzerland (1713).

Bertrand, J., P. Bertrand, and J. Ovarlez, The Mellin Transform, The Transforms and Applications Handbook, 2<sup>nd</sup> Edition, Ed. Alexander D. Poularikas, CRC Press LLC, Boca Raton, FL, USA (2000).

Bombieri, E., Problems of the Millenium: The Riemann Hypothesis, Mathematics Institute, Peterborough, NH, USA (2000-2001).

Borel, É., Mémoire sur les Séries Divergentes, Annales Scientifiques de l'É.N.S. Série, Tome 16, pp. 9-131, Gauthier-Villars, Paris, France (1899).

Borel, É., Leçons sur les Séries Divergentes, Nouvelles Lecons sur la Theorie des Fonctions, Gauthier-Villars, Paris, France (1901).

Borwein, J. M., D. M. Bradley, and R. E. Crandall, “Computational strategies for the Riemann zeta function”, Journal of Computational and Applied Mathematics, 121, pp. 247-296 (2000).

Borwein, P., S. Choi, B. Rooney, and A. Weirathmueller, The Riemann Hypothesis: A Resource for the Afficionado and Virtuoso Alike, Springer, Berlin, Germany (2007).

Bracewell, R. N., The Fourier Transform and its Applications, 2<sup>nd</sup> edition, revised, McGraw Hill Publishing Company, New York, NY, USA (1986).

Brent, R. P., “On the Zeros of the Riemann Zeta Function in the Critical Strip”, Mathematics of Computation, 33 (148), pp. 1361-1372, October (1979).

Brent, R. P., J. van de Lune, H. J. J. te Riele, and D. T. Winter, “On the Zeros of the Riemann Zeta Function in the Critical Strip II, Mathematics of Computation, 39, pp. 681-688 (1982).

Bromwich, T. J. I'a., An Introduction to the Theory of Infinite Series, third edition, American Mathematical Society, Chelsea Publishing, Providence, RI, USA (1991).

- C -

Calinger, R., “Leonard Euler: The First St. Petersburg Years (1727-1741)”, Historia Mathematica, 2, Article No. 0015, pp. 121-166 (1996).

Carlson, J., A. Jaffe, and A. Wiles, editors, The Millenium Prize Problems, Mathematics Institute and American Mathematical Society, Peterborough, NH and Providence, RI, USA (2006).

Cauchy, A. L., “Mémoire sur les intégrales définies, prises entre des limites imaginaires”, Savants Etrangers, Académie des Sciences de l’Institut de France, Vol. 1 (1825).

Cauchy, A. L., “Sur la mécanique céleste et sur un nouveau calcul qui s'applique à un grande nombre de questions diverses (On the celestial mechanics and on a new calculus that can be applied to a great number of diverse questions)”, presented to the Academy of Sciences of Turin, Italy, October 11 (1831).

Cauchy, A. L., “Mémoire sur les rapports qui existent entre le calcul des Résidus et le calcul des Limites, et sur les avantages qu'offrent ces deux calculs dans la résolution des équations algébriques ou transcendantes (Memorandum on the connections that exist between the residue calculus and the limit calculus, and on the advantages that these two calculi offer in solving algebraic and transcendental equations)”, presented to the Academy of Sciences of Turin, Italy, November 27 (1831).

Chandrasekharan, K. S., Lectures on the Riemann Zeta-Function, Tata Institute of Fundamental Research, Mumbai, India (1953).

Chandrasekharan, K. S., Introduction to Analytic Number Theory (Grundlehren der mathematischen Wissenschaften), Comprehensive Studies in Mathematics, Lectures at the Eidgenossische Technische Hochschule (ETH), Zurich, Switzerland, Band 148, Springer, Berlin, Germany (1969).

Chebyshev, P. L., Sur la fonction qui détermine la totalité des nombres premiers inférieurs à une limite donnée, Mem. Ac. Sc. St. Petersbourg, 6, pp. 141-157 (1851); Jour. de Math (1) 17, pp. 341-365 (1852).

Cheng, Y. F. and S. W. Graham, “Explicit Estimates for the Riemann Zeta Function”, *Rocky Mountain Journal of Mathematics*, Vol. 34, No. 4, Winter (2004).

Clay Mathematics Institute, Peterborough, NH, USA,  
<http://www.claymath.org/>

Cohen, H., Number Theory, Volume II: Analytic and Modern Tools, Graduate Texts in Mathematics, Springer Science+Business Media, LLC, New York, NY, USA (2007).

Comtet, L., Advanced Combinatorics, The Art of Finite and Infinite Expansions, D. Riedel Publishing, Dordrecht, Holland (1974).

Conrey, J. B., “The Riemann Hypothesis”, *Notices of the American Mathematical Society*, Vol. 50, No. 3, pp. 341-353, March (2003).

Conway, J. B., Functions of One Complex Variable, 2<sup>nd</sup> edition, Springer-Verlag, New York, NY, USA (1978).

Copson, E. T., An Introduction to the Theory of Functions of a Complex Variable, Oxford University Press, London, UK (1935).

Copson, E. T., Asymptotic Expansions, Cambridge Tracts in Mathematics and Mathematical Physics, No. 55, Cambridge University Press, Cambridge, UK (1965).

Connes, A., “An Essay on the Riemann Hypothesis”, in Open Problems in Mathematics, J. F. Nash Jr. and M. Th. Rassias, eds., pp. 225-257, Springer, New York, USA (2016).

Costin, O., Asymptotics and Borel Summability, Chapman & Hall/CRC Monographs and Surveys in Pure and Applied Mathematics, No. 141, CRC Press, Boca Raton, FL, USA (2009).

- D -

Davenport, H., Multiplicative Number Theory, Graduate Texts in Mathematics, second edition, Springer-Verlag, New York, USA (1980).

Deakin, M. A. B., “Euler’s Invention of Integral Transforms”, Archive for History of Exact Sciences, Vol. 33, pp. 307-309 (1985).

Debnath, L. and D. Bhatta, Integral Transforms and Their Applications, 2<sup>nd</sup> edition, CRC Press, Boca Raton, FL, USA (2015).

de Bruijn, N. G., Asymptotic Methods in Analysis, Dover Publications, Inc., New York, USA (1958).

de la Vallée Poussin, C. J., “Sur la fonction  $\zeta(s)$  de Riemann et le nombre des nombres premiers inférieurs à une limite donnée”, Mémoires Couronnés de l’Acad. Roy. des Sciences, Belgique, 59, pp. 1-74 (1899).

De Morgan, A., “On the Summation of Divergent Series”, The Assurance Magazine and Journal of the Institute of Actuaries, pp. 245-252, October (1865).

Derbyshire, J., Prime Obsession, Penguin Group, New York, NY, USA (2004).

Devlin, K., The Millennium Problems, The Seven Greatest Unsolved Mathematical Problems of Our Time, Basic Books, New York, NY, USA (2002).

- E -

Edwards, H. M., Riemann’s Zeta Function, Dover Publications, Inc., Mineola, NY, USA (1974).

Erdélyi, A., Asymptotic Expansions, Dover Publications, Inc., New York, NY, USA (1956).

Erdős, P., “On a New Method in Elementary Number Theory Which Leads to an Elementary Proof of the Prime Number Theorem”, Proceedings of the National Academy of Sciences, Vol. 35, pp. 374-384, USA (1949).

Erickson, C., “A Geometric Perspective on the Riemann Zeta Function’s Partial Sums”, Stanford Undergraduate Research Journal, Spring (2005).

Ettlinger, H. J., “Cauchy’s Paper of 1814 on Definite Integrals”, Annals of Mathematics, Second Series, Vol. 23, No. 3, pp. 255-270, March (1922).

Euler, L., “De summatione innumerabilium progressionum” (The summation of an innumerable progression), Commentarii academiae scientiarum imperialis Petropolitanae, (Memoirs of the imperial academy of sciences in St. Petersburg, Russia), 5, pp. 91-105 (1738), E20. Reprinted in Opera Omnia, Series I, Vol. 14, pp. 25-41.

Euler, L., “Methodus generalis summandi progressiones” (A general method for summing series), Commentarii academiae scientiarum imperialis Petropolitanae (Memoirs of the imperial academy of sciences in St. Petersburg, Russia), 6, pp. 68-97 (1738), E25. Reprinted in Opera Omnia, Series I, Vol. 14, pp. 42-72.

Euler, L., “De summis serierum reciprocarum” (On the sums of series of reciprocals), Commentarii academiae scientiarum imperialis Petropolitanae, (Memoirs of the imperial academy of sciences in St. Petersburg, Russia), 7, pp. 123-134 (1740), E41. Reprinted in Opera Omnia, Series I, Vol. 14, pp. 73-86.

Euler, L., “Methodus universalis serierum convergentium summas quam proxime inveniendi” (Universal methods of series), Commentarii academiae scientiarum imperialis Petropolitanae, (Memoirs of the imperial academy of sciences in St. Petersburg, Russia), 8, pp. 3-9 (1741), E46. Reprinted in Opera Omnia, Series I, Vol. 14, pp. 101-107, translated from the Latin by W. Jacob, IV and T. J. Osler.

Euler, L., “Inventio summae cuiusque seriei ex dato termino generali ” (Finding the sum of any series from a given general term), Commentarii academiae scientiarum imperialis Petropolitanae, (Memoirs of the imperial academy of sciences in St. Petersburg, Russia), 8, pp. 9-22 (1741), E47. Reprinted in Opera Omnia, Series I, Vol. 14, pp. 108-123.

Euler, L., “Variae observations circa series infinitas” (Various observations about infinite series), *Commentarii academiae scientiarum Petropolitanae*, (Memoirs of the academy of sciences in St. Petersburg, Russia), 9, pp. 160-188 (1744), E72. Reprinted in *Opera Omnia*, Series I, Vol. 14, pp. 217-244.

Euler, L., Introductio in analysin infinitorum (Introductions to Analysis of the Infinite), Books I and II, (1748). translated from the Latin by J. D. Blanton, Springer-Verlag, New York, NY (1988). Also see Rickey, V. F., “A Reader’s Guide to Euler’s *Introductio*”, prepared for the Euler 2K+2 Conference, Countdown to the Tercentenary, Rumford, Maine, August 4-7 (2002).

Euler, L., “Constructio aequationis differentio-differentialis  $Ay du^2 + (B + Cu) du dy + (D + Eu Fuu) d dy = sumto elemento du constante$ ”, *Novi Comm. Academ. St. Petersburg*, Russia, Vol 8, pps. 150-156, reprinted in *Opera Omnia* I 22, pp. 395-402, E274 (1763).

Euler, L., “Remarques sur un beau rapport entre les séries des puissances tant directes que réciproques” (Remarks on a beautiful relation between direct as well as reciprocal power series), *Memoires de l’academie des sciences de Berlin*, 17, pp. 83-106, (1768), E352. Reprinted in *Opera Omnia*, Series I, Vol. 15, pp. 70-90, translated from the Latin by L. Willis and T. J. Osler, August (2006).

Euler, L., *Institutiones Calculi Integralis*, Book 1, Part 2, Section 1, Imperial Academy of Sciences, St. Petersburg, Russia, reprinted in *Opera Omnia*, I 12 (1769).

Euler, L., Opera Omnia, Springer, New York, NY, USA (2008).

Euler Archive, Mathematical Association of America, Washington, DC, USA (2017).

- F -

Ferraro, G., "Some Aspects of Euler's Theory of Series: Inexplicable Functions and the Euler-Maclaurin Summation Formula", Historia Mathematica, 25, article number HM982195, pp. 290-317 (1998).

Figueroa-O'Farrill, J., "Mathematical Techniques III", Lecture Notes, 3. Integral Transforms, pp. 185-245.

Flajolet, P., X. Gourdon and P. Dumas, "Mellin Transforms and Asymptotics: Harmonic Sums", Theoretical Computer Science, Vol. 144, pp. 3-58 (1995).

Flajolet, P., X. and R. Sedgewick, "Mellin Transforms and Asymptotics: Finite Differences and Rice's Integrals", Theoretical Computer Science, Vol. 144, pp. 101-124 (1995).

Flanigan, F. J., Complex Variables, Harmonic and Analytic Functions, Dover Publications, Inc. reprint, New York, NY, USA (1972).

Ford, W. B., Studies on Divergent Series and Summability and The Asymptotic Developments of Functions Defined by Maclaurin Series, Chelsea Publishing Co., New York, NY, USA (1916).

Fourier, J., La Théorie analytique de la Chaleur, F., Didot, Paris, France, translated into English by A. Freeman in 1955, Dover Publications, Inc., Mineola, NY, USA (1822).

- G -

Gaughan, E. D., Introduction to Analysis, 5<sup>th</sup> edition, Pure and Applied Undergraduate Texts - 1, American Mathematical Society, Providence, RI, USA (2009)

Gilbert, S. W., The Riemann Hypothesis and the Roots of the Riemann Zeta Function, Booksurge Publishing (CreateSpace, an Amazon Company), Scotts Valley, CA, USA (2009).

Goldstein, L. J., “A History of the Prime Number Theorem”, The American Mathematical Monthly, Mathematical Association of America, Vol. 80, No. 6, pp. 599-615, June-July (1973).

Graham, R. L, D. E. Knuth, and O. Patashnik, Concrete Mathematics, A Foundation For Computer Science, 2<sup>nd</sup> edition, Addison-Wesley Professional, Boston, MA, USA (1994).

Gram, J.-P., “Note sur les zéros de la fonction  $\zeta(s)$  de Riemann”, Acta Mathematica, 27, pp. 289-304 (1903).

- H -

Hadamard, J., “Sur la distribution des zéros de la function  $\zeta(s)$  et ses conséquences arithmétiques”, Bull. Soc. Math. France, 24, pp. 199-220 (1896).

Hardy, G. H., “The Application to Dirichlet’s Series of Borel’s Exponential Method of Summation”, Proceedings of the London Math. Soc., s2-8 (1), pp. 277-294 (1910).

Hardy, G. H., “Sur les zéros de la function  $\zeta(s)$  de Riemann”, Comptes Rendus I, Vol. 158, pp. 1012-1014 (1914).

Hardy, G. H., “Prime Numbers”, British Association Report, Vol. 10, pp. 350-354 (1915).

Hardy, G. H., Divergent Series, second edition, American Mathematical Society, Chelsea Publishing, Providence, RI, USA (1991).

Hardy, G. H. and J. E. Littlewood, “New Proofs of the Prime-Number Theorem and Similar Theorems”, Quarterly Journal of Mathematics, Vol. 46, pp. 215-219 (1915).

Hardy, G. H. and M. Riesz, The General Theory of Dirichlet’s Series, Cambridge University Press, Cambridge, UK (1915).

Hasse, H., "Ein Summierungsverfahren für die Riemannsche  $\zeta$ -Reihe",  
Mathematische Zeitschrift, Vol. 32, pp. 456-464 (1930).

Hecke, E. "Über die Bestimmung Dirichletscher Reihen durch ihre  
Funktionalgleichung." Math. Ann., 112, pp. 664-699 (1936).

Hildebrand, A. J., Introduction to Analytic Number Theory, Math 531 Lecture  
Notes, University of Illinois, Champaign-Urbana, IL, USA (2005).

Hutchinson, J. I., "On the Roots of the Riemann Zeta Function", Transactions of  
the American Mathematical Society, Vol. 27, No. 1, pp. 49-60, January  
(1925).

Hyslop, J. M., Infinite Series, Dover Publications, Inc., reprint, Mineola, NY,  
USA (1959).

- I -

Ivić, A., The Riemann Zeta-Function, Theory and Applications, Dover  
Publications, Inc., Mineola, NY, USA (1985).

Ivić, A., "On Some Reasons for Doubting the Riemann Hypothesis" (2003).  
<https://arxiv.org/abs/math/0311162>

Iwaniec, H., Lectures on the Riemann Zeta Function, American Mathematical  
Society, Providence, RI, USA (2014).

- J -

James, G., Some Theorems on the Summation of Divergent Series, Ph.D.  
Dissertation, Columbia University, New York, NY, USA (1917).

- K -

Kline, M., "Euler and Infinite Series", Mathematics Magazine, 56, No. 5, pp.  
307-314 (1983).

Knopp, K., Theory of Functions, Parts I and II, translated from the German by F. Bagemihl, Dover Publications, Inc., New York, NY, USA (1945, 1947, and 1973).

Knopp, K., Infinite Series and Series, Dover Publications, Inc., New York, NY, USA (1956).

Knopp, K., Theory and Application of Infinite Series, 2<sup>nd</sup> edition, Dover Publications, Inc., New York, NY, USA (1990).

Kowalenko, V., “Euler and Divergent Series”, European Journal of Pure and Applied Mathematics, Vol. 4, No. 4, pp. 370-423 (2011).

Krantz, S. G and H. R. Parks, A Primer of Real Analytical Functions, Birkhauser Verlag, Berlin (1992).

Kudryavtesva, E. A., F. Saidak and P. Zvengrowski, “Riemann and His Zeta Function”, Morfismos, 9, No. 2, pp. 1-48 (2005).

- L -

Lagrange, J. L., Théorie des fonctions analytiques, l'Imprimerie de la République, 1<sup>st</sup> edition, Paris, France (1797).

Landau, E., Handbuch der Lehre von der Verteilung der Primzahlen, reprinted, Chelsea Publishing, New York, NY, USA (1953).

Lang, S., Complex Analysis, 3<sup>rd</sup> edition, Springer-Verlag, New York, NY, USA (1993).

Laplace, P.-S., “Des Fonctions génératrices”, in Théorie analytique des Probabilités, 2<sup>nd</sup> edition, Chapter 1, Sections 2-20, Paris, France (1814).

Laplace, P.-S., Théorie analytique des Probabilités, Chapter 1, Part 2, Lerch, Paris, France (1820).

Laugwitz, D., Bernhard Riemann 1826-1866, Turning Points in the Conception of Mathematics, translated from the German by Abe Shenitzer, Modern Birkhäuser Classics, Birkhäuser, reprint, Boston, MA, USA (2008).

Levinson, N. and R. M. Redeffer, Complex Variables, Holden-Day, Inc., San Francisco, CA, USA (1970).

Littlewood, J. E., “Sur la distribution des nombres premiers, Comptes Rendus, Vol. 158, pp. 1869-1872 (1914).

- M -

Mathematica®, Wolfram Research, Inc., Champaign, IL, USA (2017).

Mazur, B. and W. Stein, Prime Numbers and the Riemann Hypothesis, Cambridge University Press, New York, NY, USA (2016).

Mellin Biography (Robert Hjalmar), School of Mathematics and Statistics, University of St. Andrews, St. Andrews, Fife, Scotland (2017).  
<https://mathshistory.st-andrews.ac.uk/Biographies/Mellin/#>

Miles, J. W., Integral Transforms in Applied Mathematics, Cambridge University Press, Cambridge, UK (1971).

Milgram, M. S., “Integral and Series Representations of Riemann’s Zeta Function and Dirichlet’s Eta Function and a Medley of Related Results”, Journal of Mathematics, Hindawi Publishing Co., Article IID 181724 (2013).

MIT OpenCourseWare, 18.785 Number Theory, <https://ocw.mit.edu>, Fall (2019).

- N -

Nash, J. F. Jr. and M. Th. Rassias, Open Problems in Mathematics, Springer, New York, USA (2016).

Needham, T., Visual Complex Analysis, Oxford University Press, Oxford, UK (2002).

Nevanlinna, R. and V. Paatero, Introduction to Complex Analysis, translated from the Finnish by T. Kovari and G. S. Goodman, Addison-Wesley Publishing Co., Reading, MA, USA (1964).

Nörlund, N. E., Vorlesungen über Differenzenrechnung, American Mathematical Society, Chelsea Publishing, Providence, RI, USA (1954).

- O -

Oberhettinger, F., Tables of Mellin Transforms, Springer-Verlag, Berlin, Germany (1974).

Oberhettinger, F., Tables of Fourier Transforms and Fourier Transforms of Distributions, Springer-Verlag, Berlin, Germany (1990).

Odlyzko, A. M., “Tables of Zeros of the Riemann Zeta Function”,  
[http://wwt.dtc.umn.edu/~odlyzko/zeta\\_tables/index.html](http://wwt.dtc.umn.edu/~odlyzko/zeta_tables/index.html)

- P -

Paris, R. B., An asymptotic representation for the Riemann zeta function on the critical line, Proceedings of the Royal Society A, Vol. 446, pp. 565-587, The Royal Society, London, UK (1994).

Paris, R. B. and D. Kaminski, Asymptotics and Mellin-Barnes Integrals, Encyclopedia of Mathematics and Its Applications, No. 85, Cambridge University Press, Cambridge, UK (2001).

Pengelley, D. J., “Dances Between Continuous and Discrete: Euler’s Summation Formula”, Euler 2K+2 Conference, Rumford, Maine, USA, Robert Bradley and Ed Sandifer, editors, November (2002).

Pengelley, D. J., “The Bridge Between the Continuous and the Discrete via Original Sources”, in Study the Masters: The Abel-Fauvel Conference, Kristiansand, O. Bekken, et. al., editors, National Center for Mathematics Education, University of Gothenburg, Gothenburg, Sweden (2002).

Pouliarikas, A. D., The Transforms and Applications Handbook, 2<sup>nd</sup> edition, CRC Press LLC, Boca Raton, FL, USA (2000).

- Q -

Quine, J. R., "Lectures on Analytic Number Theory", Department of Mathematics, Florida State University, Tallahassee, FL, USA (2017).

- R -

Rainville, E. D., Infinite Series, MacMillan and Co., Ltd., New York, NY, USA (1964).

Ramanujan, S., "Some properties of Bernoulli's numbers", Journal of the Indian Mathematical Society, Vol. III, pp. 219-234 (1911).

Ramanujan, S., "New Expressions for Riemann's Functions  $\xi(s)$  and  $\Xi(s)$ ", Quarterly Journal of Mathematics, XLVI, pp. 253-260 (1915).

Riemann, G. F. B., "Ueber die Anzahl der Primzahlen unter einer gegebenen Grösse", Monatsberichte der Berliner Akademie, November (1859). translated from the German by D. R. Wilkins and published as "On the Number of Prime Numbers Less Than A Given Quantity", [www.claymath.org](http://www.claymath.org) (1998). translated from the German by M. Ansaldi with technical assistance by J. Anders and published as "On the Number of Prime Numbers Less Than a Given Quantity", in God Created the Integers, S. Hawking, editor, Running Press, Philadelphia, PA, USA (2005).

Riemann, G. F. B., von Weber, editor, Bernhard Riemann's Gesammelte Mathematische Werke Und Wissenschaftlicher Nachlass, Herausgegeben Unter Mitwirkung von R. Dedekind von H. Weber, Michigan Historical Reprint Series, University of Michigan University Library, reprint, Ann Arbor, MI, USA (1876).

Riemann International School of Mathematics (RISM), <http://www.rism.it>  
Rosen, K. H., Elementary Number Theory and Its Applications, 4<sup>th</sup> edition, Addison Wesley, Boston, MA, USA (2000).

Rosser, J. B., J. M. Yohe, and L. Schoenfeld, “Rigorous Computation and the Zeros of the Riemann Zeta-Function”, Information Processing, Number 68, Proceedings of IFIP Congress, pp. 70-76, NH, USA (1968).

- S -

Sabbagh, K., The Riemann Hypothesis, The Greatest Unsolved Problem in Mathematics, Farrar, Straus and Giroux, New York, NY, USA (2002).

Sandifer, C. E., “Euler’s Solution of the Basel Problem – The Longer Story”, Western Connecticut State University, Danbury, CT, USA (2003).

Sandifer, C. E., The Early Mathematics of Leonhard Euler, The Spectrum Series, Mathematical Association of America, Washington, DC, USA (2007).

Sarnak, P., Problems of the Millennium: The Riemann Hypothesis, Clay Mathematics Institute, Peterborough, NH, USA (2004).

Sarnak, P., Lectures on L-Functions, Riemann International School of Mathematics (RISM), Verbania, Italy (2009).

Selberg, A, “An Elementary Proof of the Prime-Number Theorem”, Annals of Mathematics, Vol. 50, No. 2 (1949).

Shilov, G. E., Elementary Real and Complex Analysis, translated from the German by R. A. Silverman, Dover Publications, Inc. reprint, New York, NY, USA (1973).

Sneddon, I. N., Fourier Transforms, Dover Publications, Inc., New York, NY, USA (1951, 1995).

Speiser, A., “Geometrisches zur riemannschen zetafunktion”, Mathematische Annalen, 110, pp. 514-521 (1934).

Spira, R., “Zeros of Sections of the Zeta Function. I”, Mathematics of Computation, Vol. 20, pp. 542-550 (1966).

Sprugnoli, R., An Introduction to Mathematical Methods in Combinatorics,  
Universita Degli Studi Firenze, Florence, Italy (2006).

Srivastava, H. M. and J. Choi, Series Associated with the Zeta and Related Functions, Kluwer Academic Publishers, Dordrecht, Netherlands (2001).

Strömbergsson, A., “Analytic Number Theory – Lecture Notes Based on Davenport’s Book”, Uppsala University Mathematics Dept., Uppsala, Sweden (2008).

Szpankowski, W., “Mellin Transform and Its Applications”, in Average Case Analysis of Algorithms on Sequences, Chapter 9, John Wiley & Sons, Inc., Hoboken, NJ, USA (2001).

- T -

Tennenbaum, G. and M. Mendes, The Prime Numbers and Their Distribution, translated from the French by P. G. Spain, Vol. 6, American Mathematical Society, Student Mathematical Library (2000).

Titchmarsh, E. C., “The Zeros of the Riemann Zeta-Function”, Proceedings of the Royal Society of London, 151, pp. 234-255 (1935).

Titchmarsh, E. C., The Theory of the Riemann Zeta Function, revised by D. R. Heath-Brown, 2<sup>nd</sup> edition, Oxford Science Publications, Oxford, UK (1999).

Tolstov, G. P., Fourier Series, translated from the Russian by R. A. Silverman, Dover Publications, Mineola, NY, USA (1962, 1976).

Turing, A., “Some Calculations of the Riemann Zeta-Function”, Proceedings of the Royal Society of London, 3, pp. 99-117 (1953).

- V -

van de Lune, J. and H. J. J. te Riele, “On the Zeros of the Riemann Zeta Function in the Critical Strip III”, Mathematics of Computation, 41, pp. 759-767 (1983).

van de Lune, J., H. J. J. te Riele, and D. T. Winter, “On the Zeros of the Riemann Zeta Function in the Critical Strip IV”, Mathematics of Computation, 46, pp. 667-681 (1986).

van der Veen, R. and J. van de Craats, The Riemann Hypothesis, Annali Lax New Mathematical Library, Mathematical Association of America, MAA Press, Washington, DC, USA (2015).

Varadarajan, V. S., Euler Through Time: A New Look at Old Themes, American Mathematical Society, Providence, RI, USA (2006).

Varadarajan, V. S., “Euler and His Work on Infinite Series”, Bulletin of the American Mathematical Society, Vol. 44, No. 4, pp. 515-539, October (2007).

von Koch, H., “Sur la distribution des nombres premiers”, Proceedings of the ICM, Vol. 1 (1900).

- W -

Watson, G. N., “A Theory of Asymptotic Series”, Philosophical Transactions of the Royal Society A, Vol. 211, Issue 471-483, January 1 (1912).

Whittaker, E. T. and G. N. Watson, A Course of Modern Analysis, 4<sup>th</sup> edition, Cambridge University Press, Cambridge, UK (1902).

Widder, D. V., The Laplace Transform, 2<sup>nd</sup> printing, Princeton University Press, Princeton, NJ, USA (1946).

Widder, D. V., Advanced Calculus, 2<sup>nd</sup> edition, Dover Publications, Inc., New York, NY, USA (1947, 1961, 1989).

Wirtinger, W., “Eine Anwendung der Euler-Maclaurin'schen Summenformel, insbesondere auf eine Aufgabe von Abel”, Acta Mathematica, 26, p. 255-271 (1902).

Wolfram Demonstrations Project, “Dirichlet  $L$ -Functions and Their Zeros” (2017).

<http://demonstrations.wolfram.com/DirichletLFunctionsAndTheirZeros/>

Wolfram Research, “Harmonic Number” (2018).

<http://functions.wolfram.com/PDF/HarmonicNumber2.pdf>

- Y -

Yiu, Paul, The Elementary Mathematical Works of Leonhard Euler (1707-1783), Department of Mathematics, Florida Atlantic University, Boca Raton, FL, USA (1999).

- Z -

Zagier, D., “Values of zeta functions and their applications”, First European Congress of Mathematics, Vol. II, Progress in Mathematics, 120, pp. 497-512, Birkhäuser-Verlag, Basel, Switzerland (1994).

Zemanian, A. H., Generalized Integral Transformations, Dover Publications, Inc., New York, NY, USA (1968).