# Analysis I Suggested Summer Reading List

Theoni Pappus, *The Joy of Mathematics, More Joy of Mathematics, Mathematical Scandals*
William Dunham, *Journey Through Genius, Euler The Master of Us All*
Eli Maor, *e: The story of a number, To Infinity and Beyond, Trigonometric Delights*
David Berlinski, *A Tour of the Calculus*
GH Hardy, *A Mathematician's Apology*
Paul Hoffman, *Archimedes' Revenge, The Man Who Loved Only Numbers*
Ian Stewart, *The Mathematical Tourist, Islands of Truth*, etc.
Raymond Smullyan, *What is the Name of This Book, This Book Has No Name, Alice in Puzzleland, The Lady or The Tiger, To Mock A Mockingbird,* etc.
Martin Gardner, *Diversions from Scientific American, Mathematical Circus, Mathematical Carnival, Mathematical Magic Show, aha! Insight, ah! Gotcha*, etc.
Hans Rademacher and Otto Toeplitz, *The Enjoyment of Mathematics*
James Glueck, *Genius*
Richard Friedberg, *An Adventurer's Guide to Number Theory*
Solomon Golomb, *Polyominoes*
Edwin Abbott, *Flatland*
Richard Rusczyk and Sandor Rehovsky, *The Art of Problem Solving*
John D. Barrow, *Pi in the Sky*
Underwood Dudley, *The Trisectors, Mathematical Cranks*
Wayne Wickelgren, *How to Solve Problems*
Loren Larson, *Problem Solving Through Problems*
George Gamov, *One, Two Three, Infinity, Mr Tompkins…*
Robert Kanigel, *The Man Who Knew Infinity*
Douglas Hoffstadter, *Goedel, Escher, and Bach, Metamagical Themas*
Ross Honsberger, *Ingenuity in Mathematics*, etc.
George Polya, *How to Solve It*
Eugene Krause, *Taxicab Geometry*
*Fascinating Fibonaccis* (author unknown)
Martha Sved, *Journey into Geometries*
*The Trachtenberg System of Speed Mathematics*
Courant and Robbins, *What is Mathematics*
David Wells, *You are a Mathematician*
Mayme Logsdon, *A Mathematician Explains*
Paul Nahim, $\sqrt{-1}$ : *An Imaginary Tale*
John Allen Paulos  *Innumeracy, Beyond Numeracy, A Mathematician Reads the Newspaper, Once Upon a Number*, etc.
Donald Knuth *Surreal Numbers*
Conway and Guy *The Book of Numbers*
Bruce Schechter *My Brain is Open*
Peter Hilton, Derek Holton, Jean Pederson, *Mathematical Reflections*
Edward B. Burger *Exploring the Number Jungle*
Morris Kline any of his books which seem to talk about mathematics in their historical context
Lillian Lieber, *The Education of T.C. Mits*
Eric Temple Bell, *Men of Mathematics*
Lynn Osen, *Women in Mathematics*
H. Steinhaus, *Mathematical Snapshots*
W.W. Rouse Ball, H.S.M.Coxeter, *Mathematical Recreations and Essays*