

February 20, 2009

Polynomials: Bibliography

- Edward J. Barbeau, *Polynomials*.
Springer, 1989, 2003 ISBN 0-387-40627-1
- P. Borwein & T. Erdélyi, *Polynomials and polynomial inequalities*
Graduate Texts in Mathematics (161), Springer, 1995 QA241 B775 1995
- Alicia Dickenstein, Ioannis Z. Emiris (eds.), *Solving polynomial equations: foundations, algorithms and applications*
Springer, 2005 ISBN-10 3-540-24326-7/-13 978-3-540-24326-7
- Ronald S. Irving, *Integers, polynomials and rings*
Springer, 2004 ISBN 0-387-403970-3/0-387-20172-6
- Dan Kalman, *Uncommon mathematical excursions: Polynomials and related realms*
Dolciani Mathematical Expositions #35, Mathematical Association of America, 2009
ISBN 978-0-88385-341-2
- Morris Marden *Geometry of polynomials*
American Mathematical Society, 1966
- Maurice Mignotte & Doru Ştefanescu, *Polynomials*
Springer, Singapore, 1999 ISBN 091-4021-51-2
- G.V. Milovanović, D.S. Matrinović & Th. M. Rassias,
Topics in polynomials: extremal problems, inequalities, zeros
World Scientific Publishing Co. Pte. Ltd., Singapore, 1994 ISBN 981-02-049-X QA241.B775.1995
- Victor V. Prasolov, *Polynomials*
Springer, 2000 ISBN 3-540-40714-6
- Qazi Ibadur Rahman & Gerhard Schmeisser, *Analytic theory of polynomials*
London Math. Soc. Monographs, Clarendon, Oxford, 2002 ISBN 0-19-853493-0
- Theodore J. Rivlin, *The Chebyshev polynomials*
- Terry Sheil-Small, *Complex polynomials*
Cambridge U.P., 2002 ISBN 0-521-40068-6

Approximation and Interpolation

- E.W. Cheney, *An introduction to approximation theory*
- Ward Cheney, Will Light, *A course in approximation theory*
Brooks Cole, 1999 ISBN 0-534-36224-9
- R.P. Feinerman & D.J. Newman, *Polynomial approximation*
Williams & Wilkins, Baltimore, 1974
- L.M. Milne-Thomson, *The calculus of finite differences*.
Macmillan, London, 1933
- Theodore J. Rivlin, *An introduction to the approximation of functions*
Blaisdell, 1969
- Theodore J. Rivlin, *Chebyshev polynomials: from approximation theory to algebra and number theory*
QA404.5.R58.1990
- Karl-Georg Steffens, *The history of approximation theory: from Euler to Bernstein*

Birkhäuser, 2006 ISBN-10 0-8176-4353-2/ISBN-13 978-0-8176-4353-9

Galois Theory and Algebraic Number Theory

- Z.I. Borevich & I. R. Shafarevich, *Number theory*
Academic Press, 1966 QA241.B73
- B.R. King, *Beyond the quintic equation*
Birkhäuser, Boston, 1996
- Ian Stewart, *Galois Theory*
Chapman & Hall, 1973 SBN 412 108003 QA214.S74
- John Swallow, *Exploratory Galois Theory*
Cambridge, 2004 ISBN 0-521-83650-6/0-521-54499-8
- Steven H. Weintraub, *Galois Theory*
Springer, 2000 ISBN 0-387-28725-6

General background and ancillary material

- Edward J. Barbeau, *Pell's equation*
Springer, 2003 ISBN 0-387-95529-1
- Robert Bix, *Conics and cubics: concrete introduction to algebraic curves*
Springer, 1998, 2006 ISBN-10 0-387-31802-X
- Duncan A. Buell, *Binary quadratic forms: classical theory and modern computations*
Springer-Verlag, 1989 ISBN 0-387-97037-1
- L. Childs, *A concrete introduction to higher algebra* Springer-Verlag, NY, 1979
- Robert L. Devaney, *An introduction to chaotic dynamical systems* Second edition
Addison Wesley, 1989
- F.R. Gantmacher, *Matrix Theory, Vol. II* Chelsea, NY. 1960 (last chapter)
- A.S. Householder, *Numerical treatment of a single nonlinear equation* 1979
- A. Ralston & P. Rabinowitz, *A first course in numerical analysis* McGraw-Hill, 7th printing, 1985
- Walter Rudin, *Principle of mathematical analysis*, Third edition.
McGraw-Hill, (1953, 1964), 1976 ISBN 0-07-054235-X
Weierstrass approximation theorem (pp. 159-165); Fejer's theorem (p. 199)
- Joseph H. Silverman & John Tate, *Rational points on elliptic curves*
Springer, 1992 ISBN 0-387-97825-9

Websites

- www.polynomiography.com
- <http://arxiv.org/abs/math.GM/0005026/>
- <http://mathworld.wolfram.com/SexticEquation.html>