

List of Books_on_wavelets

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- E. Aboufadel and S. Schlicker, editors. [Discovering Wavelets](#). John Wiley & Sons, September 1999.
- M. Ainsworth, J. Levesley, M. Marletta, and W.A. Light, editors. [Wavelets, Multilevel Methods and Elliptic PDEs](#). Clarendon Press, 1997.
- A.N. Akansu and R.A. Haddad. [Multiresolution signal decomposition: transforms, subbands and wavelets](#). Academic Press/Harcourt Brace Jovanovich, 1992.
- A.N. Akansu and M.J.T. Smith, editors. [Subband and Wavelet Transforms Design and Applications](#), volume 40 of *The International Series in Engineering and Computer Science*. Kluwer, 1995.
- A. Aldroubi and E. Lin, editors. [Wavelets, Multiwavelets, and Their Applications](#). AMS, 1998.
- S.T. Ali, J.-P. Antoine, and J.-P. Gazeau. [Coherent States, Wavelets, and Their Generalizations](#). Springer Verlag, 2000.
- D. Alpay, editor. [Wavelets, Multiscale Systems and Hypercomplex Analysis](#), volume 167 of *Operator theory, Advances, Applications*. Birkhäuser, 2006.
- J.P. Antoine, R. Murenzi, P. Vandergheynst, and S. Twareque Ali. [Two-Dimensional Wavelets and their Relatives](#). Cambridge University Press, 2004.
- G. Bachmann, E. Beckenstein, and L. Narici. [Fourier and Wavelet Analysis](#). Springer Verlag, 1999.
- W. Baeni. [Wavelets - eine Einfuehrung fuer Ingenieure](#). Oldenburg, 2001.
- L.W. Baggett and D.R. Larson, editors. [The Functional and Harmonic Analysis of Wavelets and Frames](#), volume 247 of *Contemp. Math*. Amer. Math. Soc., September 1999.
- S. Basu and B.C. Levy, editors. [Multidimensional Filter Banks and Wavelets · Research Developments and Applications](#). Springer, 1997.
- G. Battle. [Wavelets and renormalization](#), volume 10 of *World Scientific Series in Approximation*. World Scientific, 2002.
- J.J. Benedetto and P.J.S.G. Ferreira, editors. [Modern sampling theory. Mathematics and applications](#). Applied and Numerical Harmonic Analysis. Birkhäuser Verlag, 2001.
- J. Benedetto and M. Frazier, editors. [Wavelets: Mathematics and Applications](#), volume 13 of *Studies in Advanced Mathematics*. CRC Press, Boca Raton, Florida, 1993.
- J.J. Benedetto and A.I. Zayed, editors. [Sampling, Wavelets, and Tomography](#). Applied and Numerical Harmonic Analysis Series. Birkhäuser Verlag, 2003.
- G. Bi and Y. Zeng, editors. [Transforms and fast algorithms for signal analysis and representation](#). Applied and Numerical Harmonic Analysis. Birkhäuser Verlag, 2002.
- C. Blatter. [Wavelets -- A primer](#). A.K. Peters, 1998.

- C. Blatter. [*Wavelets -- Eine Einführung*](#). Advanced Lecture Notes in Mathematics. Vieweg, 1998.
- A. Boggess and F. Narcowich. [*First Course in Wavelets with Fourier Analysis, A*](#). Prentice Hall, 2001.
- M. Bownik. [*Anisotropic Hardy Spaces and Wavelets*](#). Oxford University Press, 2003.
- P. Brémaud. [*Mathematical principles of signal processing*](#). Springer-Verlag, 2002.
- A. Bruce and H.-Y. Gao. [*Applied Wavelet Analysis with S-PLUS*](#). Springer Verlag, 1996.
- B. Burke Hubbard. [*The World According to Wavelets: The Story of a Mathematical Technique in the Making*](#). AK Peters, Wellesley, MA, 1998.
- C.S. Burrus, R.A. Gopinath, and H. Guo. [*Introduction to Wavelets and Wavelet Transforms: A Prime*](#). Prentice Hall, 1998.
- C.A. Cabrelli, C. Heil, and U.M. Molter. [*Self-Similarity and Multiwavelets in Higher Dimensions*](#), volume 170 of *Memoirs of the AMS*. AMS, 2004.
- R. Carmona, W.-L. Hwang, and B. Torrésani, editors. [*Gabor and Wavelet Transforms with an Implementation in S*](#). Wavelet analysis and its applications. Academic Press, 1998.
- T.F. Chan and J. Shen, editors. [*Image processing and analysis: variational PDE, wavelet, and stochastic methods*](#). SIAM, 2005.
- Y.T. Chan. [*Wavelet basics*](#). Kluwer, 1995.
- H.-L. Chen, editor. [*Complex Harmonic Splines, Periodic Quasi-Wavelets: Theory and Applications*](#). Kluwer Academic Publishers, January 2000.
- H.L. Chen. [*Complex Harmonic Splines, Periodic Quasi-Wavelets · Theory and Applications*](#). Springer, 2000.
- O. Christensen and K.I. Christensen. [*From Taylor polynomials to wavelets*](#). Applied Numerical Harmonic Analysis. Birkhäuser Verlag, 2004.
- C.K. Chui. [*An Introduction to Wavelets*](#), volume 1 of *Wavelet Analysis and its Applications*. Academic Press, Boston, 1992.
- C.K. Chui, editor. [*Wavelets: A Tutorial in Theory and Applications*](#), volume 2 of *Wavelet Analysis and its Applications*. Academic Press, Boston, 1992.
- C.K. Chui. [*Wavelets: A mathematical tool for signal analysis*](#), volume 1 of *SIAM Monographs on Mathematical Modeling and Computation*. SIAM, 1997.
- A. Cohen and R.D. Ryan. [*Wavelets and Multiscale Signal Processing*](#). Applied Mathematics and Mathematical Computation Series. CRC Press, Boca Raton, Florida, 1995.
- A. Cohen. [*Numerical Analysis of Wavelet Methods*](#), volume 32 of *Studies in Mathematics and its Applications*. Elsevier, 2003.
- W. Dahmen. [*Multiscale Wavelet for Partial Differential Equations*](#). Wavelet analysis and its applications. Academic Press, 1997.
- X. Dai and D.R. Larson. [*Wandering Vectors for Unitary Systems and Orthogonal Wavelets*](#). Amer. Math. Soc., 1998.

- P. Das, A. Abbate, and C. DeCusatis. [Wavelets and subbands. Fundamentals and applications](#). Applied and Numerical Harmonic Analysis. Birkhäuser Verlag, 2001.
- C.E. D'Attelis and E.M. Fernández-Berdaguer, editors. [Wavelet Theory and Harmonic Analysis in Applied Sciences](#). Applied and Numerical Harmonic Analysis. Birkhäuser Verlag, 1997.
- I. Daubechies. [Ten lectures on wavelets](#), volume 61 of *CBMS-NSF Regional Conf. Ser. in Appl. Math.* SIAM, 1992.
- I. Daubechies, editor. [Different Perspectives on Wavelets](#). Amer. Math. Soc., 1994.
- L. Debnath, editor. [Wavelet Transforms and Time-Frequency Signal Analysis](#). Applied and Numerical Harmonic Analysis. Birkhäuser Boston, 2001.
- L. Debnath, editor. [Wavelets and Their Applications](#). Birkhäuser Boston, 2002.
- L. Debnath, editor. [Wavelets and Signal Processing](#). Applied and Numerical Harmonic Analysis. Birkhäuser Boston, 2003.
- D. Deng, D. Huang, R.Q. Jia, W. Lin, and J. Wang, editors. [Wavelet Analysis and Applications](#), volume 25 of *AMS/IP Studies in Advanced Mathematics*. AMS, 2002.
- S. Dubuc and G. Deslauriers, editors. [Spline Functions and the Theory of Wavelets, 1999](#), volume 18 of *CRM Proceedings & Lecture Notes*. AMS, 1999.
- B. Engquist, P. Löstedt, and O. Runborg. [Multiscale Methods in Science and Engineering](#), volume 44 of *Lecture Notes in Computer Science and Engineering*. Springer, 2005.
- G. Erlebacher, M.Y. Hussaini, and L.M. Jameson, editors. [Wavelets, Theory and Applications](#). Oxford University Press, 1998.
- M. Farge, J.C.R. Hunt, and J.C. Vassilicos, editors. [Wavelets, Fractals, and Fourier Transforms](#). Clarendon Press, 1993.
- F. Fekri, editor. [Finite Field Wavelet Transforms](#). Prentice Hall, 2003. expected 07/2004.
- P. Flandrin. [Time-Frequency / Time-Scale Analysis](#), volume 10 of *Wavelet analysis and its applications*. Academic Press, 1998.
- E. Foufoula-Georgiou and P. Kumar, editors. [Wavelets in Geophysics](#). Wavelet analysis and its applications. Academic Press, 1994.
- M. Frazier, B. Jawerth, and G. Weiss, editors. [Littlewood-Paley Theory and the Study of Function Spaces](#). Oxford University Press, 1992.
- M. Frazier. [An introduction to wavelets through linear algebra](#). Undergraduate Texts in Mathematics. Springer Verlag, 1999.
- W. Freeden and V. Michel. [Multiscale Potential Theory With Applications to Geoscience](#). Applied Numerical Harmonic Analysis. Birkhäuser Verlag, 2004.
- H. Führ. [Abstract Harmonic Analysis of Continuous Wavelet Transforms](#), volume 1863 of *Lecture Notes in Math.* Springer, 2005.
- C. Gasquet, P. Witomski, and R. Ryan. [Fourier analysis and applications](#), volume 30 of *Texts in Applied Mathematics*. Springer, 1999.

- R. Gençay, F. Selçuk, and B. Whitcher. [*An Introduction to Wavelets and Other Filtering Methods in Finance and Economics*](#). Academic Press, 2001.
- J. Goswami and A.K. Chan. [*Fundamentals of Wavelets: Theory, Algorithms, and Applications*](#). Wiley, 1999.
- K.U. Gröcherling, editor. [*Foundations of Time-Frequency Analysis*](#). Birkhäuser Verlag, 2000.
- W. Härdle, G. Kerkycharian, D. Picard, and A. Tsybakov. [*Wavelets, approximation, and statistical applications*](#), volume 129 of *Lecture Notes in Statistics*. Springer Verlag, 1998.
- T.-X. He, editor. [*Wavelet analysis and multiresolution methods*](#), volume 212 of *Lecture Notes in Pure and Applied Mathematics*. Marcel Dekker, 2000.
- J. Heil and D.F. Walnut, editors. [*Fundamental papers in wavelet theory*](#). Princeton Univ. Press, 2006.
- J. Heil, editor. [*Harmonic Analysis and Applications*](#). Applied Numerical Harmonic Analysis. Birkhäuser Verlag, 2005.
- C. Heill. [*Wavelets, Frames and Operator Theory*](#). AMS, 2004.
- E. Hernandez and G.L. Weiss, editors. [*A first course on Wavelets*](#), volume 26 of *Studies in Advanced Mathematics*. CRC Press, 1996.
- J.A. Hogan and J.D. Lakey. [*Time-Frequency and Time-Scale Methods*](#). Applied Numerical Harmonic Analysis. Springer Verlag, 2005.
- M. Holschneider. [*Wavelets: An Analysis Tool*](#). Oxford Mathematical Monographs. Oxford University Press, 1998.
- D. Hong and T.X. He, editors. [*Approximation Theory, Wavelets, and Numerical Analysis*](#), volume 155 of *J. Comput. Appl. Math.* Elsevier, 2003.
- S. Igari. [*Real analysis - with an introduction to wavelet theory*](#), volume 177 of *Translations of mathematical Monographs*. AMS, 1998.
- Y. Ishikawa, editor. [*Wavelet analysis for clinical medicine*](#). Medical Publication, 2001.
- A. Iske, E. Quak, and M.S. Floater, editors. [*Tutorials on Multiresolution in Geometric Modelling*](#). Mathematics and Visualization. Springer-Verlag, 2002.
- M.E.H. Ismail, M.Z. Nashed, A.I. Zayed, and A.F. Ghaleb, editors. [*Mathematical Analysis, Wavelets, and Signal Processing*](#). Amer. Math. Soc., 1996.
- S.S. Iyengar, E.C. Cho, and V.V. Phoha. [*Foundations of Wavelet Networks and Applications*](#). Chapman & Hall, CRC Press, 2002.
- S. Jaffard, Y. Meyer, and R.D. Ryan. [*Wavelets. Tools for science & technology*](#). SIAM, 2001. (Update of Y. Meyer: *Wavelets: Algorithms & Applications*.)
- P.K. Jain, H.N. Mhaskar, M. Krishna, J. Prestin, and D. Singh, editors. [*Wavelets and Allied Topics*](#). Narosa, New Delhi, 2001.
- M. Jansen and P. Oonincx. [*Second Generation Wavelets and their Applications*](#). Springer, 2005.
- M. Jansen. [*Noise reduction by wavelet thresholding*](#), volume 161 of *Lecture Notes in Statistics*.

Springer Verlag, 2001.

- A. Jensen and A. la Cour-Harbo. [*Ripples in mathematics - the discrete wavelet transform*](#). Springer-Verlag, 2001. lifting.
- P. Jorgensen and O. Bratteli. [*Wavelets through a looking glass*](#). Applied and Numerical Harmonic Analysis. Birkhäuser, 2002.
- G. Kaiser. [*A friendly guide to wavelets*](#). Birkhäuser Verlag, 1994.
- D. Kammler. [*First Course in Fourier Analysis*](#). Prentice Hall, 2000.
- F. Keinert. [*Wavelets and Multiwavelets*](#), volume 42 of *Studies in advanced mathematics*. Chapman & Hall, 2003.
- R. Klees and R. Haagmans, editors. [*Wavelets in the Geosciences*](#). Springer Verlag, 2000.
- M. Kobayashi. [*Applications of Wavelets. Case studies*](#). SIAM, 1998.
- T.H. Koornwinder, editor. [*Wavelets: an elementary treatment of theory and applications*](#), volume 1 of *Series in Approximations & Decompositions*. World Scientific, 1993.
- O. Kounchev. [*Multivariate Polysplines*](#). Academic Press, 2001.
- A. Kunoth, editor. [*Wavelet Methods - Elliptic Boundary Value Problems and Control Problems*](#). Teubner Verlag, 2001.
- P.J. Laurent, A. Le Mehaute, and L. Schumaker, editors. [*Wavelets, Images, and Surface Fitting*](#). A.K. Peters, 1994.
- J.P. Li, J. Zhao, V. Wickerhauser, Y.Y. Tang, and L. Peng, editors. [*Wavelet analysis and its applications, Proceedings of the third international conference on WAA*](#). World Scientific, 2003. (2 volumes).
- J.P. Li. *Wavelet Analysis and Signal Processing - Theory, Applications and Software Implementation*. Chongqing Publishing House, 1997.
- A.K. Louis, P. Maass, and A. Rieder. [*Wavelets: Theory and applications*](#). John Wiley, 1997.
- S. Mallat, editor. [*A wavelet tour of signal processing*](#). Academic Press, 1998.
- P.R. Massopust. [*Fractal Functions, Fractal Surfaces, and Wavelets*](#). Academic Press, 1995.
- A. Mertins. [*Signal Analysis: Wavelets, Filter Banks, Time-Frequency Transforms and Applications*](#). John Wiley & Sons, 1999.
- Y. Meyer and R. Coifman, editors. [*Wavelets. Calderón-Zygmund and Multilinear Operators*](#). Cambridge University Press, 1997.
- Y. Meyer, editor. *Wavelets and applications*, volume 20 of *Research Notes in Applied Mathematics*. Springer, 1992. Proceedings Internat. Conf. Marseille, May, 1989.
- Y. Meyer. [*Wavelets and operators*](#), volume 37 of *Cambridge Studies in Advanced Mathematics*. Cambridge University Press, 1992.
- Y. Meyer. [*Wavelets: Algorithms and Applications*](#). SIAM, Philadelphia, 1993. Translated and revised by R.D. Ryan.

- Y. Meyer. [*Wavelets, Vibrations and Scalings*](#). Amer. Math. Soc., 1998.
- D.F. Mix and K.J. Olejniczak. [*Elements of Wavelets for Engineers and Scientists*](#). Wiley-Interscience, 2003.
- Y. Nievergelt. [*Wavelets made easy*](#). Birkhäuser, 1999.
- R.T. Ogden, editor. [*Essential wavelets for statistical applications and data analysis*](#). Birkhäuser Verlag, 1996.
- D.B. Percival and A.T. Walden. [*Wavelet methods for time series analysis*](#), volume 4 of *Cambridge Series in Statistical and Probabilistic Mathematics*. Cambridge University Press, 2000.
- A.A. Petrosian and F.G. Meyer, editors. [*Wavelets in Signal and Image Analysis, From Theory to Practice*](#), volume 19 of *Computational imaging and vision*. Kluwer Academic Publishers, 2001.
- M. Pinsky. [*Introduction to Fourier Analysis and Wavelets*](#). Brooks-Cole, Inc., 2001.
- L. Prasad and S.S. Iyengar. [*Wavelet Analysis with Applications to Image Processing*](#). CRC Press, Boca Raton, Florida, 1997.
- E. Prestini, editor. [*Applied harmonic analysis*](#). Birkhäuser Verlag, 2002.
- H.L. Resnikoff and R.O. Wells Jr. [*Wavelets, The scalable structure of information*](#). Springer, 1998.
- C. Rohwer, editor. [*Nonlinear Smoothing and Multiresolution Analysis*](#). Birkhäuser Verlag, 2005.
- M.B. Ruskai, , G. Beylkin, R. Coifman, I. Daubechies, S.G. Mallat, Y. Meyer, and L. Raphael, editors. [*Wavelets and their Applications*](#). Jones and Bartlett, 1992.
- R. Schneider. [*Multiskalen- und Wavelet-Matrixkompression*](#). Advances in Numerical Mathematics. Teubner, 1998.
- L.L. Schumacher and G. Webb, editors. [*Recent advances in Wavelet analysis*](#). Academic Press, 1993.
- B.W. Silverman and J.C. Vassilicos, editors. [*Wavelets the key to intermittent information*](#). Oxford University Press, 2000.
- J.-L. Starck, F. Murthag, and A. Bijaoui. [*Image processing and data analysis: the multiscale approach*](#), volume 177 of *Translations of mathematical Monographs*. Cambridge University Press, 1998.
- H.-G. Stark. [*Wavelets and Signal Processing · An Application-Based Introduction*](#). Springer, 2005.
- E.J. Stollnitz, T. Derose, and D.H. Salesin. [*Wavelets for Computer Graphics : Theory and Applications*](#). The Morgan Kaufmann Series in Computer Graphics and Geometric Modeling. Morgan Kaufman Publ., 1996.
- G. Strang and T. Nguyen. [*Wavelets and filter banks*](#). Wellesley-Cambridge Press, Box 812060, Wellesley MA 02181, fax 617-253-4358, 1996.
- T. Strutz. [*Bilddatenkompression*](#). Vieweg, 2000.
- B.W. Suter. [*Multirate and Wavelet Signal Processing*](#). Wavelet analysis and its applications. Academic Press, 1997.

- Y.Y. Tang, J. Liu, L. Yang, and H. Ma, editors. [Wavelet theory and its application to pattern recognition](#). World Scientific, 1999.
- C. Taswell. [Handbook of wavelet transform algorithms](#). Birkhäuser Verlag, Boston, 1997.
- A. Teolis. [Computational signal processing with wavelets](#). Birkhäuser Verlag, 1998.
- B.M. ter Haar Romeny. [Front-End Vision and Multi-Scale Image Analysis](#), volume 27 of *Computational imaging and vision*. Kluwer, 2003.
- M. Thuillard. [Wavelets in soft computing](#), volume 25 of *World Scientific Series in Robotics and Intelligent Systems*. World Scientific, 2001.
- K. Trimeche, editor. [Generalized Wavelets and Hypergroups](#). Gordon & Breach, 1996.
- K. Urban, editor. [Wavelets in numerical simulation, Problem Adapted Construction and Applications](#). Lecture Notes in Computational Science and Engineering. Springer-Verlag, 2002.
- J.C. van den Berg, editor. [Wavelets in Physics](#). Cambridge University Press, 1999.
- J.C. van den Berg, editor. [Wavelets in Physics](#). Cambridge University Press, 2004.
- M. Vetterli and J. Kovacevic. [Wavelets and subband coding](#). Applied Mathematics and Mathematical Computation Series. Prentice Hall, Englewood Cliffs, 1995.
- B. Vidakovic. [Statistical modeling by wavelets](#). J. Wiley, 1999.
- J.L. Walker. [A Primer on Wavelets and their Scientific Applications](#), volume 29 of *Series in Advanced Mathematics*. CRC Press, 1999.
- F. Walnut, editor. [An Introduction to Wavelet Analysis](#). Birkhäuser Verlag, 2001.
- G.G. Walter and X. Shen. [Wavelets and other orthogonal systems with applications](#). CRC Press, 2000. (second edition).
- M.V. Wickerhauser. [Adapted wavelet analysis from theory to software](#). A.K. Peters, 289 Linden Street, Wellesley, MA 02181, 1994.
- P. Wojtaszczyk. [A mathematical introduction to wavelets](#), volume 37 of *London Mathematical Society Students Texts*. Cambridge University Press, 1997.
- Y. Zeevi. [Signal and Image Representation in Combined Spaces](#). Wavelet analysis and its applications. Academic Press, 1997.
- D.X. Zhou, editor. [Wavelet Analysis: Twenty Years' Developments](#), volume 1 of *Series in Analysis*. World Scientific, 2002.

Review: Ten books on wavelets in [SIAM Review](#) vol 42 (1) 2000 127-137 by J.J. Benedetto.

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