

Bibliography

- [Arms 88] M. A. Armstrong. *Groups and Symmetry*. Springer-Verlag, New York, 1988.
- [Barr 04] H. H. Barrett and K. J. Myers. *Foundations of Image Science*. Wiley-Interscience, Hoboken, NJ, 2004.
- [Brac 00] R. N. Bracewell. *The Fourier Transform and its Applications*. McGraw Hill, Boston, MA, third Ed., 2000.
- [Bran 97] L. Brandolini, L. Colzani, and G. Travaglini. “Average decay of Fourier transforms and integer points in polyhedra”. *Ark. Mat.*, Vol. 35, pp. 253–275, 1997.
- [Brow 78] H. Brown, R. Bülow, J. Neubüser, H. Wondratschek, and H. Zassenhaus. *Crystallographic Groups of Four-Dimensional Space*. John Wiley and Sons, New York, NY, 1978.
- [Cass 97] J. W. S. Cassels. *An Introduction to the Geometry of Numbers*. Springer-Verlag, Berlin, 1997.
- [Coh93] H. Cohen. *A Course in Computational Algebraic Number Theory*. Springer-Verlag, Berlin, 1993.
- [Cort 93] G. Cortelazzo and R. Manduchi. “On the determination of all the sublattices of a preassigned index and its application to multidimensional

- sampling”. *IEEE Trans. Circuits Syst. Video Technol.*, Vol. 3, No. 4, pp. 318–320, Aug. 1993.
- [Dubo 05] E. Dubois. “Frequency-domain methods for demosaicking of Bayer-sampled color images”. *IEEE Signal Process. Lett.*, Vol. 12, pp. 847–850, 2005.
- [Dubo 06] E. Dubois. “Filter design for adaptive frequency-domain Bayer demosaicking”. In: *Proc. IEEE Int. Conf. Image Processing*, pp. 2705–2708, Oct. 2006.
- [Dubo 09a] E. Dubois. “Color filter array sampling of color images: Frequency-domain analysis and associated demosaicking algorithms”. In: R. Lukac, Ed., *Single Sensor Imaging: Methods and Applications for Digital Cameras*, Chap. 7, pp. 183–212, CRC Press, Boca Raton, FL, 2009.
- [Dubo 09b] E. Dubois. “Video sampling and interpolation”. In: A. Bovik, Ed., *The Essential Guide to Video Processing*, Chap. 2, Academic Press, 2009.
- [Dubo 82] E. Dubois, M. S. Sabri, and J. Y. Ouellet. “Three-dimensional spectrum and processing of digital NTSC color signals”. *SMPTE J.*, Vol. 91, pp. 372–378, Apr. 1982.
- [Dubo 85] E. Dubois. “The sampling and reconstruction of time-varying imagery with application in video systems”. *Proc. IEEE*, Vol. 73, No. 4, pp. 502–522, Apr. 1985.
- [Dudg 84] D. E. Dudgeon and R. M. Mersereau. *Multidimensional Digital Signal Processing*. Prentice-Hall, Englewood Cliffs, NJ, 1984.
- [Farr 08] J. Farrell, G. Ng, X. Ding, K. Larson, and B. Wandell. “A display simulation toolbox for image quality evaluation”. *Journal of Display Technology*, Vol. 4, No. 2, pp. 262–270, June 2008.

- [Fieg 05] P. Fieguth and J. Zhang. “Random field models”. In: A. Bovik, Ed., *Handbook of Image and Video Processing*, Chap. 4.3, pp. 361–375, Elsevier, 2005.
- [Gers 92] A. Gersho and R. M. Gray. *Vector Quantization and Signal Compression*. Kluwer, Boston, 1992.
- [Gray 95] R. M. Gray and J. W. Goodman. *Fourier Transforms: An Introduction for Engineers*. Kluwer Academic Publishers, 1995.
- [Gunt 05] B. K. Gunturk, J. Glotzbach, Y. Altunbasak, R. W. Schafer, and R. M. Mersereau. “Demosaicking: Color filter array interpolation”. *IEEE Signal Process. Mag.*, Vol. 22, No. 1, pp. 44–54, Jan. 2005.
- [Hans 01] D. Hanselman and B. Littlefield. *Mastering MATLAB 6: A Comprehensive Tutorial and Reference*. Prentice Hall, Upper Saddle River, NJ, 2001.
- [Harr 78] F. J. Harris. “On the use of windows for harmonic analysis with the discrete Fourier transform”. *Proc. IEEE*, Vol. 66, No. 1, pp. 51–83, Jan. 1978.
- [Hira 07] K. Hiraakawa and P. J. Wolfe. “Fourier domain display color filter array design”. In: *Proc. IEEE Int. Conf. Image Processing*, pp. III–429–III–432, San Antonio, TX, Sep. 2007.
- [Hoff 71] K. Hoffman and R. Kunze. *Linear Algebra*. Prentice-Hall, Upper Saddle River, NJ, second Ed., 1971.
- [Holt 05] D. F. Holt, B. Eick, and E. A. O’Brien. *Handbook of Computational Group Theory*. Chapman & Hall/CRC, 2005.
- [Huan 72] T. S. Huang. “Two-dimensional windows”. *IEEE Trans. Audio Electroacoust.*, Vol. 20, No. 1, pp. 88–89, March 1972.

- [John 03] G. M. Johnson and M. D. Fairchild. “A top down description of S-CIELAB and CIEDE2000”. *Color Research and Application*, Vol. 28, No. 6, pp. 425–435, Dec. 2003.
- [Kalk 98] T. Kalker. “On multidimensional sampling”. In: V. K. Madisetti and D. B. Williams, Eds., *The Digital Signal Processing Handbook*, Chap. 4, pp. 4-1 – 4-21, CRC Press, 1998.
- [Kamm 00] D. W. Kammler. *A First Course in Fourier Analysis*. Prentice-Hall, Upper Saddle River, NJ, 2000.
- [Kapl 84] W. Kaplan. *Advanced Calculus*. Addison-Wesley, Reading, MA, third Ed., 1984.
- [Klom 03] M. A. Klompenhouwer and G. de Haan. “Subpixel image scaling for color matrix displays”. *Journal of the Society for Information Display*, Vol. 11, No. 1, pp. 99–108, March 2003.
- [Komr 82] J. Komrska. “Simple derivation of formulas for Fraunhofer diffraction at polygonal apertures”. *J. Opt. Soc. Am.*, Vol. 72, No. 10, pp. 1382–1384, Oct. 1982.
- [Kret 81] F. Kretz and J. Sabatier. “Échantillonnage des images de télévision: analyse dans le domaine spatio-temporel et dans le domaine de Fourier”. *Annales des Télécommunications*, Vol. 36, pp. 231–273, Mar.-Apr. 1981.
- [Kuta 06] G. Kutas, H.-K. Choh, Y. Kwak, P. Bodrogi, and L. Czúni. “Subpixel arrangements and color image rendering methods for multiprimary displays”. *J. Electr. Imaging*, Vol. 15, No. 2, pp. 023002-1–023002-9, Apr.-Jun. 2006.
- [Lage 09] R. L. Lagendijk and J. Biemond. “Basic methods for image restoration and identification”. In: A. Bovik, Ed., *The Essential Guide to Image Processing*, Chap. 14, pp. 323–348, Academic Press, 2009.

- [Leon 08] A. Leon-Garcia. *Probability and Random Processes for Electrical Engineering*. Prentice Hall, third Ed., 2008.
- [Lu 09] Y. M. Lu, M. N. Do, and R. S. Laugesen. “A computable Fourier condition generating alias-free sampling lattices”. *IEEE Trans. Signal Process.*, Vol. 57, No. 5, pp. 1768–1782, May 2009.
- [Lu 92] W.-S. Lu and A. Antoniou. *Two-Dimensional Digital Filters*. Marcel Dekker, New York, 1992.
- [Micc 02] D. Micciancio and S. Goldwasser. *Complexity of Lattice Problems: A Cryptographic Perspective*. Kluwer Academic Publishers, Boston, MA, 2002.
- [Mill 72] W. Miller, Jr. *Symmetry Groups and Their Applications*. Academic Press, New York, 1972.
- [Newm 72] M. Newman. *Integral Matrices*. Academic Press, New York, 1972.
- [Oppe 97] A. V. Oppenheim and A. S. Willsky. *Signals and Systems*. Prentice Hall, Upper Saddle River, NJ, second Ed., 1997.
- [Oppe 99] A. V. Oppenheim, R. W. Schaffer, and J. R. Buck. *Discrete-Time Signal Processing*. Prentice Hall, Upper Saddle River, NJ, second Ed., 1999.
- [Ouel 81] J. Y. Ouellet and E. Dubois. “Sampling and reconstruction of NTSC video signals at twice the color subcarrier frequency”. *IEEE Trans. Commun.*, Vol. COM-29, pp. 1823–1832, Dec. 1981.
- [Papo 02] A. Papoulis and S. Unnikrishna Pillai. *Probability, Random Variables and Stochastic Processes*. McGraw Hill, fourth Ed., 2002.
- [Papo 68] A. Papoulis. *Systems and Transforms with Applications in Optics*. McGraw-Hill, New York, 1968.

- [Pete 62] D. P. Petersen and D. Middleton. “Sampling and reconstruction of wave-number-limited functions in N-dimensional Euclidean spaces”. *Inform. Contr.*, Vol. 5, pp. 279–323, 1962.
- [Plat 00] J. C. Platt. “Optimal filtering for patterned displays”. *IEEE Signal Process. Lett.*, Vol. 7, No. 7, pp. 179–181, July 2000.
- [Poir 93] A. B. Poirson and B. A. Wandell. “The appearance of colored patterns: pattern-color separability”. *J. Opt. Soc. Am. A, Opt. Image Sci.*, Vol. 10, No. 12, pp. 2458–2470, Dec. 1993.
- [Poir 96] A. B. Poirson and B. A. Wandell. “Pattern-color separable pathways predict sensitivity to simple colored patterns”. *Vision Res.*, Vol. 36, No. 4, pp. 515–526, 1996.
- [Poul 98] A. D. Poularikas. *The Handbook of Formulas and Tables for Signal Processing*. CRC Press, Boca Raton, FA, 1998.
- [Prie 81] M. B. Priestley. *Spectral Analysis and Time Series: Univariate Series*. Vol. 1, Academic Press, London, 1981.
- [Rich 90] I. Richards and H. Youn. *Theory of Distributions: A Non-Technical Introduction*. Cambridge University Press, Cambridge, UK, 1990.
- [Star 02] H. Stark and J. W. Woods. *Probability and Random Processes with Applications to Signal Processing*. Prentice-Hall, Englewood Cliffs, NJ, third Ed., 2002.
- [Stein 71] E. Stein and G. Weiss. *Introduction to Fourier Analysis on Euclidean Spaces*. Princeton University Press, Princeton, NJ, 1971.
- [Stra 99] G. Strang. “The discrete cosine transform”. *SIAM Review*, Vol. 41, No. 1, pp. 135–147, March 1999.
- [Vidy 11] M. Vidyasagar. *Control System Synthesis: A Factorization Approach, Part I*. Morgan and Claypool, 2011.

- [Wang 02] Y. Wang, J. Ostermann, and Y. Q. Zhang. *Video Processing and Communications*. Prentice Hall, Upper Saddle River, NJ, 2002.
- [Warn 65] S. Warner. *Modern Algebra*. Vol. 1, Prentice-Hall, Englewood Cliffs, NJ, 1965.
- [Wonh 85] W. M. Wonham. *Linear Multivariable Control: A Geometric Approach*. Springer-Verlag, New York, NY, third Ed., 1985.
- [Wood 06] J. W. Woods. *Multidimensional Signal, Image, and Video Processing and Coding*. Academic Press, 2006.
- [Wubb 11] D. Wübben, D. Seethaler, J. Jaldén, and G. Matz”. “Lattice reduction: a survey with applications in wireless communications”. *IEEE Signal Process. Mag.*, Vol. 28, No. 3, pp. 70–91, May 2011.
- [Xu 08] J. Xu, J. Farrell, T. Matskewich, and B. Wandell. “Prediction of preferred ClearType filters using the S-CIELAB metric”. In: *Proc. IEEE Int. Conf. Image Processing*, pp. 361–364, San Diego, CA, Oct. 2008.
- [Zhan 97] X. Zhang and B. A. Wandell. “A spatial extension of CIELAB for digital color image reproduction”. *Journal of the Society for Information Display*, Vol. 5, No. 1, pp. 61–67, 1997.