

## DAFTAR PUSTAKA

- Adi, A. N., 2010, *Mekatronika*, Edisi Pertama, Graha Ilmu: Yogyakarta.
- Allen, T.J., Hall, A., Dhillon, A., Owen, J.S., dan Beard, P.C., 2010, Photoacoustic Imaging of Lipid Rich Plaques in Human Aorta, *SPIE*, 7564 75640C-3.
- Arduino.cc, 2019, [www.arduino.cc](http://www.arduino.cc), Diakses pada 08 Agustus 2019.
- Arkundato, A., Rahman, L., Sutisna, I., Rafi'i, D., Warnana, D., dan Endarko, 2007, *Alat Ukur dan Metode Pengukuran*, Universitas Terbuka: Jakarta.
- Artanto, D., 2012, *Interaksi Arduino dan LabVIEW*, PT. Elex Media Komputindo: Jakarta.
- Bageshwar, D.V., Pawar, A.S., Khanvilkar, V.V., dan Kadam, V.J., 2010, Photoacoustic Spectroscopy and Its Applications – A Tutorial Review, *Eurasian Journal of Analytical Chemistry*, 5(2):187-203–203.
- Ballou, G., 2009, *Electroacoustic Devices: Microphones and Loudspeakers*, USA: Elsevier.
- Bilen, B., Gokbulut, B., Kafa, U., Heves, E., Inci, M.N., dan Unlu, M.B., 2018, Scanning Acoustic Microscopy and Time-Resolved Fluorescence Spectroscopy for Characterization of Atherosclerotic Plaques, *Nature*, 8(1):1–11.
- Brigham, E. O., 1974, *The Fast Fourier Transform*, USA: Prentice-Hall, Inc.
- Demtröder, W., 2003, *Laser Spectroscopy: Basic Concepts and Instrumentation*, 3<sup>rd</sup> ed, Germany: Springer.
- Diosi, A. dan Kleeman, L., 2005, Laser Scan Matching in Polar Coordinates with Application to SLAM, 1–16.
- El-Sharkawy Y. H. dan El Sherif A. F., 2012, Photoacoustic Diagnosis of Human Teeth Using Interferometric Detection Scheme, *Optics & Laser Technology*, 5(44), 1501-1506.
- Erfanzadeh, M. P., Kumavor D., dan Zhu, Q., 2017, Photoacoustics Scanning Laser Diode Photoacoustic Microscopy System, *Biochemical Pharmacology*, 9:1–9.

- Fowles, G. R., dan Cassiday, G. L., 2005, *Analytical Mechanics*, 7<sup>th</sup> ed, Belmont, USA: Thomson Brooks/Cole.
- Giancoli, D.C., 2011, *FISIKA*, Edisi Ke-5 Jilid 1, Erlangga: Jakarta.
- Group Music, 2013, ECM 8000 Technical Specifications, Retrieved: <https://www.behringer.com>.
- Group Music, 2015, Studio in a Little Black Box MIDAS - The Legend in Sound Quality, Retrieved: <https://www.behringer.com>.
- Hariri, A., Fatima, A., Mohammadian, N., Mahmoodkalayeh, S., Ansari, M.A., Bely, N., dan Avanaki, M.R.N., 2017, Development of Low-Cost Photoacoustic Imaging Systems Using Very Low-Energy Pulsed Laser Diodes, *Journal of Biomedical Optics*, 22(7).
- Howard, R. M., 2002, *Principles of Random Signal Analysis and Low Noise Design: The Power Spectral Density and Its Application*, Canada, USA: John Wiley & Sons, Inc.
- Hui, J., Cao, Y., Zhang, Y., Kole, A., Wang, P., Yu, G., Eakins, G., Sturek, M., Chen, W., dan Chen, J.X., 2017, Real-Time Intravascular Photoacoustic-Ultrasound Imaging of Lipid-Laden Plaque in Human Coronary Artery at 16 Frames per Second, *Scientific Reports*, 1–11.
- Kementerian Kesehatan, 2014, Infodatin: Situasi Kesehatan Jantung, Retrieved: [www.depkes.go.id/download.php?file=download/pusdatin/infodatin/infodatin-jantung.pdf](http://www.depkes.go.id/download.php?file=download/pusdatin/infodatin/infodatin-jantung.pdf).
- Kementerian Kesehatan, 2017, Penyakit Jantung Penyebab Kematian Tertinggi, Retrieved: [www.depkes.go.id](http://www.depkes.go.id).
- Kristanto, W. B., 2018, Karakterisasi Sistem Citra Tomografi Fotoakustik dan Aplikasinya untuk Deteksi Daging Ayam Berformalin, *Skripsi*, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Gadjah Mada, Yogyakarta.
- Kurniawan, E., 2017, Sistem Fotoakustik Sederhana Berbasis Laser Dioda dan Mikrofon Condenser untuk Pengukuran Konsentrasi Darah, *Skripsi*, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Gadjah Mada, Yogyakarta.

- Lin, C.Y., Chen, F., Hariri, A., Chen, C. J., Smith, P. W., Takesh, T., dan Jokerst J.V., 2018, Photoacoustic Imaging for Noninvasive Periodontal Probing Depth Measurements, *Journal of Dental Research*, 97(1), 23-30.
- Luke, G. P., Yeager, D., dan Emelianov, S. Y., 2012, Biomedical Applications of Photoacoustic Imaging with Exogenous Contrast Agents, *Annals of BioedicalEngineering*, 40 (2), 422–437.
- Lusis, A. J., 2010, Atherosclerosis Aldons, *Nature*, 407(6801), 233–41.
- Miklós, A., Schäfer, S., dan Hess, P., 1999, Photoacoustic Spectroscopy: Theory, *Encyclopedia of Spectroscopy and Spectrometry*, 21, 51–58.
- Mitrayana, Wasono, A. J., dan Ikhsan, M. R., 2017, *Spektroskopi Fotoakustik Laser dan Aplikasinya*, Edisi Pertama, Gadjah Mada University Press: Yogyakarta.
- Montigny, E. D., 2011, Photoacoustic Tomography : Principles and Applications, 77 IF-45(2007):41101.
- Muhami, 2007, *Teknologi Pengolahan Pangan*, Edisi Pertama, Universitas Terbuka: Jakarta.
- Music Group, 2013, *Measurement Condenser Microphone ECM8000 Technical Spesifications*, hal.1.
- Nguyen, V. P., Li, Y., Qian, W., Liu, B., Tian, C., Zhang, W., Huang, Z., Ponduri, A., Tarnowski, M., Wang, X., dan Paulus, Y.M., 2019, Contrast Agent Enhanced Multimodal Photoacoustic Microscopy and Optical Coherence Tomography for Imaging of Rabbit Choroidal and Retinal Vessels in Vivo, *Scientific Reports*, 9(1), 1–17.
- Press, W. H., Teukolsky, S.A., Vetterling, W.T., dan Flannery, B.P., 1992, *Numerical Recipes in Fortran 77: The Art of Scientific Computing*, 2<sup>nd</sup> ed, Cambridge University Press: Cambridge.
- Riley, K. F., Hobson, M. P., dan Bence, S. J., 2006, *Mathematical Methods for Physics and Engineering*, 3<sup>rd</sup> ed, Cambridge University Press: Cambridge.
- Rossing, T.D., 1990, *The Science of Sound*, 2<sup>nd</sup> edition, Addison-Wesley Publishing Company, Inc.: USA.
- Sanjaya, M., 2016, *Robot Cerdas Berbasis Speech Recognition – Menggunakan Matlab dan Arduino*, Penerbit ANDI: Yogyakarta.

- Schneider Electric, 2010, *NEMA Size 17 Stepper Motor*, R060210, hal.1.
- Schwartz, M. dan Manickum, O., 2015, *Programming Arduino with LabVIEW*, Birmingham, UK: Packt Publishing Ltd.
- Silalahi, H. M., 2017, Sistem Citra Fotoakustik Sederhana Berbasis Laser Dioda dan Mikrofon Condenser, *Skripsi*, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Gadjah Mada, Yogyakarta.
- Sobieszczyk, P. dan Beckman, J., 2006, Carotid Artery Disease, *CirculationAHA*, 10.1161, 244–247.
- Svelto. O, 1998, *Principles of Lasers - 5th Edition*, Vol. 53, New York USA: Plenum Publishing Corporation.
- Stoica, P. dan Moses, R. L., 2005, *Spectral Analysis of Signals*, Pearson Prentice Hall Upper Saddle River, NJ.
- Sugiyono, 2012, *Statistik untuk Penelitian*, Alfabeta: Bandung.
- Wakerly, J. F., 2006, *Digital Design: Principles and Practices*, 4th ed, Upper Saddle River, NJ: Pearson Education, Inc.
- Wang, D., Lee, D.H., Huang, H., Vu, T., Lim, R.S.A., Nyayapathi, N., Chitgupi, U., Liu, M., Geng, J., Xia, J., dan Lovell, J.F., 2018, Ingestible Roasted Barley for Contrast-Enhanced Photoacoustic Imaging in Animal and Human Subjects, *Biomaterials*, 175, 72–81.
- Wang, L. V. dan Hsin I. W., 2007, *Bio-Medical Optics*, Canada: John Wiley & Sons, Inc.
- Wang, L. V, 2009, *Photoacoustic Imaging and Spectroscopy*, 1<sup>st</sup> edition, CRC Press: Boca Raton.
- Wang, L. V, dan Yao, J., 2016, A Practical Guide to Photoacoustic Tomography in the Life Sciences, *Nature*, 13(8), 627–38.
- Wang, P., Ma, T., Slipchenko, M.N., Liang, S., Hui, J., Shung, K.K., Roy, S., Sturek, M., Zhou, Q., Chen, Z., dan Cheng, J.X., 2014, High-Speed Intravascular Photoacoustic Imaging of Lipid-Laden Atherosclerotic Plaque Enabled by a 2-KHz Barium Nitrite Raman Laser, *Nature*, 4, 1–7.
- Widyaningrum, R., Agustina, D., Mudjosemedi, M., dan Mitrayana., 2018, Photoacoustic for Oral Soft Tissue Imaging Based on Intensity Modulated

Continuous-Wave Diode Laser, *International Journal on Advanced Science Engineering Information Technology*, 8(2), 622–27.

Xin, H., Li, H., Gates, R.S., Overhults, D.G., dan Earnest Jr., J.W., 2009, Use of CO<sub>2</sub> Concentration Difference or CO<sub>2</sub> Balance to Assess Ventilation Rate of Broiler Houses, *Transactions of the ASABE*, 52(4), 1353–61.

Xu, M. dan Wang, L. V., 2006, Photoacoustic Imaging in Biomedicine, *Review of Scientific Instruments*, 77(4), 1–22.

Yao, J., dan Wang, L.V., 2011, Photoacoustic Tomography: Fundamentals, Advances, and Prospects, *National Institutes of Health*, 6(5), 332-345.

Yao, Q., Ding, Y., Liu, G., dan Zeng, L., 2017, Low-Cost Photoacoustic Imaging Systems Based on Laser Diode and Light-Emitting Diode Excitation, *Journal of Innovative Optical Health Sciences*, 10(04), 1–13.

Zhong, H., Duan, T., Lan, H., Zhou, M., dan Gao, F., 2018, Review of Low Cost Photoacoustic Sensing and Imaging Based on Laser Diode and Light-Emitting Diode, *Sensors*, 18(2264), 1–24.