



DAFTAR PUSTAKA

- Albagli, D., Dark, M., Rosenberg, C. Von, Perelman, L., Itzkan, I. & Feld, M.S., 1994, Laser-induced thermoelastic deformation: A three-dimensional solution and its application to the ablation of biological tissue, *Med. Phys.*, 21, 8, 1323–1331.
- Amar, L., 1964, Detection d'omes elastiques (ultrasonores) sur l'os occipital, induites par impulsions laser dans l'oeil d'un lapin, *C. R. Acad. Sc. Paris*, 259, 3653–3655.
- Amar, L., Bruma, M., Velghe, M. & Desvignes, M., 1965, On The Detection of LASER Induced Ultrasonic Waves in the Human Eye and The Elaboration of a Theory on The Fundamental Mechanism of Vision, *Zeitschrift fur Angew. Math. und Phys.*, 16, 182–183.
- Asadi, A., 2014, *Raspberry Pi for Beginners*, West Midland.
- Aymerich, T., Picouet, P.A. & Monfort, J.M., 2008, MEAT Decontamination technologies for meat products, 78, 114–129.
- Bageshwar, D. V, Pawar, A.S., Khanvilkar, V. V & Kadamb, V.J., 2010, Photoacoustic Spectroscopy and Its Applications – A Tutorial Review, *Eurasian J. Anal. Chem.*, 5, December 2009, 187–203.
- Basu, C., Meinhardt-Wollweber, M. & Roth, B., 2013, Lighting with laser diodes, *Adv. Opt. Technol.*, 2, 4, 313–321.
- Bell, A.G., 1880. Photoacoustic imaging and spectroscopy. American Journal of Science, 20, p.305
- Boré, G. & Peus, S., 1999, *Microphones : Methods of Operation and Type Examples*, edisi 4th, Germany.
- Bowen, T., 1981, Radiation Induced Thermoacoustic Imaging, *Proc. IEEE Ultrason. Symp.*, 19, .
- BPS, 2020, *Peternakan dalam Angka 2020*,
- Brigham, E., 1988, *The Fast Fourier Transform and its Applications*, New Jersey.
- Calasso, I.G., Craig, W. & Diebold, G.J., 2001, Photoacoustic point source, *Phys. Rev. Lett.*, 86, 16, 3550–3553.
- Carrol, C.D. & Alvarado, C.Z., 2008, Comparison of Air and Immersion Chilling on Meat Quality and Shelf Life of Marinated Broiler Breast Fillets [J], *Poult. Sci.*, 87, 368–72.
- Committee, T.S., 2015, Introduction to Node.js, *OpenJS Found.*, .
- Da-Kang, Y., Chi, Z., Konstantin, M. & Lihong, V.W., 2014, Photoacoustic Measurement of The Gruneisen Parameter of Tissue, *J. Biomed. Opt.*, 19, 1, .
- Dave, D. & Ghaly, A.E., 2011, Meat spoilage mechanisms and preservation techniques: A critical review, *Am. J. Agric. Biol. Sci.*, 6, 4, 486–510.
- Davies, J.H., 2008. MSP430 microcontroller basics. Elsevier
- Diosi, A. & Kleeman, L., 2005, Laser Scan Matching in Polar Coordinates with Application to SLAM. In IEEE/RSJ International Conference on Intelligent Robots and System, Edmonton, Alta, pp. 1–16.



- Fowles, G.R. & Cassiday, G.L. 1999. Analytical Mechanics. 6th Edition, Saunders, New York, 196-198.
- El-Sharkawy, Y.H. & El Sherif, A.F., 2012, Photoacoustic diagnosis of human teeth using interferometric detection scheme, *Opt. Laser Technol.*, 44, 5, 1501–1506.
- Elsharkawy, Y.H., 2009, Physical and thermal properties of human teeth determined by photomechanical, photothermal images to rapidly diagnose, *Opt. Diagnostics Sens. IX*, 7186, 71860K.
- Erfanzadeh, M., Kumavor, P.D. & Zhu, Q., 2018, Laser scanning laser diode photoacoustic microscopy system, *Photoacoustics*, 9, 1–9.
- Foods, I.C. on M.S. for, 1980, *Microbial Ecology of Foods : Factors Affecting Life and Death of Microorganism Vol. 1*,
- Griffiths, D. J., 1999, *Introduction to Electrodynamics*, 3 ed., Prentice-Hall, Inc., New Jersey.
- Hariri, A., Fatima, A., Mohammadian, N., Bely, N. & Nasiriavanaki, M., 2016, Towards low cost photoacoustic Microscopy system for evaluation of skin health, *Imaging Spectrom. XXI*, 9976, 99760X.
- Heinz, G. & Hautzinger, P., 2007, *Meat processing technology for small- to medium-scale producers*, Food and Agriculture Organization of the United Nations Regional Office for Asia and the Pacific.
- Heydt, R., Kornbluh, R., Pelrine, R. & Mason, V., 1998, Design and performance of an electrostrictive-polymer-film acoustic actuator, *J. Sound Vib.*, 215, 2, 297–311.
- Hosseinaee, Z., Le, M., Bell, K. & Reza, P.H., 2020, Towards non-contact photoacoustic imaging [review], *Photoacoustics*, 20, 100207.
- International Commission on Microbiological Specifications for Foods., 1980. Microbial ecology of foods: Vol 1. Factors affecting life and death of microorganisms. New York: Academic Press, 92-111.
- Jansen, K., Soest, G. Van & Steen, A.F.. Van Der, 2014, Intravascular Photoacoustic Imaging: A New Tool for Vulnerable Plaque Identification, *Ultrasound Med. Biol.*, 40, 6, 1037–1048.
- Kalkman, C.J., 1995, LabVIEW : A Software System for Data Acquisition, Data Analysis, and Instrument Control, *J. Clin. Monit.*, 11, 51–58.
- Kim, G.R., Kang, J., Kwak, J.Y., Chang, J.H., Kim, S. Il, Youk, J.H., Moon, H.J., Kim, M.J. & Kim, E.K., 2014, Photoacoustic imaging of breast microcalcifications: A preliminary study with 8-gauge core-biopsied breast specimens, *PLoS One*, 9, 8, 8–10.
- Kolkman, R.G.M., Steenbergen, W. & Van Leeuwen, T.G., 2006, In vivo photoacoustic imaging of blood vessels with a pulsed laser diode, *Lasers Med. Sci.*, 21, 3, 134–139.
- Kusmajadi, S., 2012, Perubahan Nilai pH , TVB dan Total Bakteri Daging Kerbau, *J. Ilmu Ternak*, 12, 2, 9–12.
- Lu, T. & Zang, H., 2010, Photoacoustic tomography of micro-blood vessels in tissue mimicking phantom, *Proc. - 2010 3rd Int. Conf. Biomed. Eng.*



- Informatics, BMEI 2010*, 2, Bmei, 456–458.
- Magnussen, O.M., Haugland, A., Torstveit Hemmingsen, A.K., Johansen, S. & Nordtvedt, T.S., 2008, Advances in superchilling of food - Process characteristics and product quality, *Trends Food Sci. Technol.*, 19, 8, 418–424.
- Mantri, Y. & Jokerst, J. V., 2020, Engineering Plasmonic Nanoparticles for Enhanced Photoacoustic Imaging, *ACS Nano*, 14, 8, 9408–9422.
- Matua, G., Widodo, T.W. & Mitrayana, 2017, Penerapan Sistem Kontrol XY-Stage dan Modulasi Laser Pada Tomografi Fotoakustik Menggunakan Arduino, *IJEIS (Indonesian J. Electron. Instrum. Syst.)*, 7, 2, 149.
- McRoberts, M., 2010, Beginninf Arduino : Technology in Action, Apress.
- Merthayasa, J. D., Suada, I. K., dan Agustina, K. K., 2015. Daya Ikat Air, pH, Warna, Bau dan Tekstur Daging Sapi Bali dan Daging Wagyu. *Indonesia Medicus Veterinus*, 4(1), 16–24.
- Miklós, A., Schäfer, S. and Hess, P., 1999. Photoacoustic spectroscopy, theory. 1815-1822
- Miklos, A. & Hess, P., 2000, Modulated and pulsed photoacoustics in trace gas analysis, *Anal. Chem.*, 72, 1, 30–37.
- Mitrayana, Kurniawan, E. & Widyaningrum, R., 2017, Sistem Fotoakustik Sederhana Berbasis Laser Dioda dan Mikrofon Condenser untuk Pengukuran Konsentrasi Darah, *Risal. Fis.*, 1, 2, 47–51.
- Montigny, E.D., 2011, Photoacoustic Tomography :Principles and applications, Ecole Polytechnique de Montrea.
- Mustaffa, I.B. & Khairul, S.F.B.M., 2018, Identification of fruit size and maturity through fruit images using OpenCV-Python and Rasberry Pi, *Proceeding 2017 Int. Conf. Robot. Autom. Sci. ICORAS 2017*, 2018-March, July, 1–3.
- Nurdialit, D.G., 2020, *Sistem fotoakustik tomografi untuk pencitraan jaringan biologi*.
- Ockerman, H.W. & Basu, L., 2014, Carcass chilling and boning, 142–147.
- Oraevsky, A.A., Andreev, V.A., Karabutov, A.A., Fleming, D.R., Gatalica, Z., Singh, H. & Esenaliev, R., 1999, Laser Opto-Acoustic Imaging of the Breast : Detection of Cancer Angiogenesis, *Proc. SPIE Conf. Opt. Tomogr. Spectrosc. Tissue III*, 3597, January, 352–363.
- Pao, Y.-H., 1977, *Optoacoustic Spectroscopy and Detection*, Academic Press, Inc, London.
- Petrova, E., Ermilov, S., Su, R., Nadvoretskiy, V., Conjusteau, A. & Oraevsky, A., 2013, Using optoacoustic imaging for measuring the temperature dependence of Grüneisen parameter in optically absorbing solutions, *Opt. Express*, 21, 21, 25077.
- Pospiech, M. & Liu S., 2019. Laser Diode Physics. laserdiodesource.com diakses 29 Desember 2020 pukul 19.13 GMT+7.
- Riley, K., Hobson, M.. & Bence, S.., 2006, *Mathematical Methods for Physics and Engineering - 3rd Edition* 3rd ed., Cambridge University Press.
- Roza, E., 1997, Analog-to-digital conversion via duty-cycle modulation, *IEEE Trans. Circuits Syst. II Analog Digit. Signal Process.*, 44, 11, 907–914.



- Sánchez, M.X., Fluckey, W.M., Brashears, M.M. & McKee, S.R., 2002, Microbial profile and antibiotic susceptibility of *Campylobacter* spp. and *Salmonella* spp. in broilers processed in air-chilled and immersion-chilled environments, *J. Food Prot.*, 65, 6, 948–956.
- Silalahi, H.M., 2017, *Sistem citra fotoakustik sederhana berbasis laser dioda dan mikrofon kondenser*. Universitas Gadjah Mada.
- Silfvast, W.T., 2004. Laser fundamentals. Cambridge university press.
- Wakerly, J.F., 2008. Digital Design: Principles and Practices, 4/E. Pearson Education India.
- Wang, L. V., 2008, Photoacoustic microscopy and computed tomography, *Biomed. Opt. BIOMED* 2008, 14, 1, 171–179.
- Wang, L. V. & Hu, S., 2012, Photoacoustic tomography: In vivo imaging from organelles to organs, *Science (80-.)*, 335, 6075, 1458–1462.
- Wang, X., Pang, Y., Xu, M. & Wang, L. V., 2002, Photoacoustic imaging of biological tissues with high cross-section resolution, *Annu. Int. Conf. IEEE Eng. Med. Biol. - Proc.*, 3, 2310–2311.
- Widati, A.S., 2008, Pengaruh Lama Pelayuan, Temperatur Pembekuan, dan Bahan Pengemas terhadap Kualitas Kimia Daging Sapi Beku, 3, 2, 39–49.
- Xu, M. & Wang, L. V., 2006, Photoacoustic Imaging in Biomedicine, *Rev. Sci. Instrum.*, 77, 4, .
- Yao, J. & Wang, L. V., 2012, Photoacoustic microscopy, *Laser Photonics Rev.*, 7, 5, 758–778.
- Yao, J. & Wang, L. V., 2014, Sensitivity of photoacoustic microscopy, *Photoacoustics*, 2, 2, 87–101.
- Zhou, G.H., Xu, X.L. & Liu, Y., 2010, Preservation technologies for fresh meat - A review, *Meat Sci.*, 86, 1, 119–128.