



DAFTAR PUSTAKA

- Alouache, B., and Boutkedjirt, T., 2016, Ultrasonic Assessment of Olive Oil Mixtures Properties, *IEEE International Ultrasonics Symposium Proceedings*, Tours, September 18-21.
- Appleby, M.P., 2010, Wear Debris and Oil Analysis using Ultrasonic and Capacitance Measurements, *Thesis*, University of Akron, Akron.
- Ariyanti, E.S. dan Mulyono, A., 2010, Otomatisasi Pengukuran Koefisien Viskositas Zat Cair Menggunakan Gelombang Ultrasonik, *Jurnal Neutrino*, vol. 2, hal. 183-192.
- Avallone, E.A., and Baumeister, T., 1996, *Marks' Standard Handbook for Mechanical Engineers / 10th Edition*, McGraw-Hill Professional Publishing, Pennsylvania.
- Boylestad, R., and Nashelsky, L., 1998, *Electronic Devices and Circuit Theory 7th edition*, Prentice Hall, New Jersey.
- Cheeke, J.D.N., 2002, *Fundamentals and Applications of Ultrasonic Wave*, Florida : CRC Press LLC.
- Fangxun, D., Jinghua, C., Hao, Z., and Chao, G., 2011, Development of Ultrasonic Solid Viscometer, *Chinese Control and Decision Conference (CCDC)*, Mianyang, August 1.
- Futurlec, 2010, Piezo Ultrasonic Sensor Specification, <https://www.futurlec.com/Datasheet/Sensor/USTR40-14A.pdf>, diakses 14 Mei 2018.
- Hermawati, M.Y, Suciwati, S.W., dan Warsito, 2013, Uji Viskositas Fluida Menggunakan Transduser Ultrasonik sebagai Fungsi Temperatur dan Akuisisinya pada Komputer Menggunakan Universal Serial Bus (USB), *Jurnal Teori dan Aplikasi Fisika*, vol. 01, hal 85-88.
- Jakoby, B., Scherer, M., Buskies, M., and Eisenschmid, H., 2003, An Automotive Engine Oil Viscosity Sensor, *IEEE Sensors Journal*, vol 3, hal 562-568.
- Jatmiko, I., 2007, Rancang Bangun Alat Pengukur Viskositas Pelumas dengan Sensor Ultrasonik, *Skripsi*, Teknik Elektro FT Universitas Brawijaya, Malang.
- Ju, H.S., Gottlieb, E.J., Augenstein, D.R., Brown, G.J., and Tittmann, B.R., 2010, An Empirical Method to Estimate the Viscosity of Mineral Oil by Means of Ultrasonic Attenuation, *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, vol 57, hal 1612-1620.
- Kadarmanto, A., 2007, Perancangan dan Pembuatan Alat Ukur Viskositas Oli dengan Gelombang Ultrasonik, *Skripsi*, Fisika FMIPA Universitas Brawijaya, Malang.



- Kumar, A., Pathak, P.P., and Dass, N., 2016, A Study of Speed of Sound in Water, *IOSR Journal of Applied Physics*, vol 8, hal 21-23.
- Lane, J.L., and Henderson, K.O., 2004, Viscosity Measurement: So Easy Yet So Difficult, https://www.astm.org/SNEWS/JUNE_2004/lanhen_jun04, Juni 2004, diakses 15 Desember 2017.
- Manfredi, O., Mills, R.S., and Dwyer-Joyce, R.S., 2017, Ultrasonic Rheology used as an Assessment of Oil Degradation, *44th Leeds-Lyon Symposium on Tribology*, Lyon, September 4-6.
- Maxim Integrated, 2016, DS18B20 Programmable Resolution 1-Wire Digital Thermometer, <https://datasheets.maximintegrated.com/en/ds/DS18B20.pdf>, diakses 14 Mei 2018.
- Parthasarathy, S. and Bakhshi, N.N., 1953, Relation between Velocity of Sound and Viscosity in Liquids, *Proceedings of the Physical Society. Section B*, vol 66, no 5.
- Pertamina, 2009, Small Engine Oils, <http://pelumas.pertamina.com/Files/pdf/PDF%20-%20Small%20Engine%20Oils%20New.pdf>, diakses 14 Mei 2018.
- Pratomo, I.D., Rouf, A., dan Supardi, T.W., 2016, Pengukuran Jarak Lubang Pada Benda Padat Menggunakan Sensor Ultrasonik, *Indonesian Journal of Electronics and Instrumentation System (IJEIS)*, vol 6, hal 81-92.
- Prawira, N.B., 2017, Perancangan Alat Ukur Massa Jenis Zat Cair menggunakan Cepat Rambat Gelombang Ultrasonik, *Skripsi*, Departemen Ilmu Komputer dan Elektronika FMIPA UGM, Yogyakarta.
- Robotis, 2010, OpenCM9.04, <http://support.robotis.com/en/product/controller/opencm9.04>, diakses 14 Mei 2018.
- Spectro Scientific, 2017, Guide to Measuring Oil Viscosity, <https://www.spectrosci.com/resource-center/lubricationanalysis/literature/e-guides/guide-to-measuring-oil-viscosity/>, diakses 14 Mei 2018.
- Sukarno., 2010, Ultrasonic Generator dengan Frekuensi Maksimum 100 kHz dan Daya 100 Watt Berbasis Mikrokontroler AVR ATTINY2313, *Tesis*, Magister Fisika FMIPA UI, Depok.
- Sutrisno, T., 2010, Studi Karakteristik Transduser Ultrasonik Berbahan Piezoelektrik dan Rangkaian Amplifier Switching Terhadap Perubahan Amplitudo dan Frekuensi 1kHz – 50 kHz, *Skripsi*, Fisika FMIPA UI, Depok.
- Texas Instruments, 2017, LM386 Low Voltage Audio Power Amplifier, <http://www.ti.com/lit/ds/symlink/lm386.pdf>, diakses 14 Mei 2018.