

DAFTAR PUSTAKA

- Aldoobie, N. (2015). ADDIE Model . *American International Journal of Contemporary Research* , Vol. 5(6), 68-72.
- Allen, M. (2014). Ho do people learn science? Dalam M. Allen, *Misconception in primary science, 2nd edition* (hal. 3-9). New York: Mc Grill Education.
- Archambault, J. (2008). *The Effect of Developing Kinematics Concepts Graphically Prior to Introducing Algebraic Problem Solving Techniques*”. *Action Research Reguarded for the Master of Natural Science Degree with Concentration in Physics*. Science Degree with Concentration in Physics.
- Arikunto, S. (2021). *Dasar-Dasar Evaluasi Pendidikan Edisi 3*. Jakarta: Bumi Aksara.
- Arkhipov, V. A., Gol'din, V. D., Zharova, I. K., & Perfilieva, K. G. (2018). Technique of measuring the emissivity coefficient . *Thermophysics 2018* (hal. 1-4). Tomsk , Russia: IOP Publishing.
- Arnoldo Téllez, C. H.-V. (2015). Effect size, confidence intervals and statistical power. *Psychology in Russia: State of the Art*, 27-46.
- Aufschnaiter, C. v., & Aufschnaiter, S. v. (2007). University students' activities, thinking and learning during laboratory work. *European Journal of Physics*, 51-60.
- Bandung, C. S. (2019, 3). *MAX6675 TYPE-K Thermocouple Temperature Sensor Modul with Aduino*. Diambil kembali dari CNC Stoe Bandung: <https://cncstorebandunggo.blogspot.com/2019/03/max6675-type-k-thermocouple-temperature.html>
- Box, E. T. (2021, 05 26). *Emissivity Coefficient Materials*. Dipetik 5 26, 2021, dari Engineering toolbox.com: https://www.engineeringtoolbox.com/emissivity-coefficients-d_447.html
- C Calcaneo-Roldan, O. S. (2017). A semi-analytical approach to black body radiation. *Eur. J. Phys.*, 1-11.
- Chen, & Chiachung. (2015). Determining the Leaf Emissivity of Three Crops by Infrared Thermometry. *Sensors* 2015, 15, 11387-11401; doi:10.3390/s150511387, 11388-11401.

- Dirjen Dikmen, Kemendikbud. (2011). *Pedoman Pembuatan Alat Peraga Fisika untuk SMA*. Jakarta: Kemendikbud.
- Ditama, V., Saputro, S., & Catur, A. N. (2015). Pengembangan Multimedia Interaktif dengan Menggunakan Program Adobe Flash. *Jurnal Pendidikan Kimia (JPK)*, Vol. 4 No. 2, 23-31.
- Djamarah. (2002). *Teori Motivasi Edisi ke-2*. Jakarta: Bumi Aksara.
- Donlon, C. J., Wimmer, W., Robinson, I., Flisher, G., Ferlet, M., Nlightingale, T., & Brass, B. (2014). A Second-Generation Blackbody System for the Calibration and Verification of Seagoing Infrared Radiometers. *Journal of Atmospheric and Oceanic Technology* , 1104-11027.
- Effendi, H., & Hendriyani, Y. (2016). Pengembangan Model Blended Learning Interaktif dengan Prosedu Borg & Gall. *International Seminar on Education (ISE)* (hal. 62-70). Padang: Universitas Negeri Padang.
- Emi Sulistri, L. (2017). Using Thee-tier Test to Identify The Quantity of Student that Having Misconception on Newton's Laws of Motion Concept. *Jurnal Ilmu Pendidikan Fisika*, 4-6.
- Erman, E. (2016). Factors Contributing to Students' Misconceptions in Learning Covalent Bonds. *Journal of eseach in Science Teaching*, 1-18.
- Farlex. (2020, 01 17). *The free dictionary by Farlex*. Diambil kembali dari [www.thefreedictionary.com](https://www.thefreedictionary.com/apparatus): <https://www.thefreedictionary.com/apparatus>
- García, C., J, C. P., & A.A, C. P. (2010). Design, development, and evaluation of a simple blackbody radiative source. *Review of Scientific Instruments* 81, 1-6.
- Giancoli, D. C. (2014). Quantum Mechanics. Dalam *Physics for Scientists & Engineers with Modern Physics* (hal. 1169). Edinburgh Gate Harlow Essex CM20 2JE : Pearson Education Limited .
- Gunay Palic Sadoglu, A. R. (2015). Turkish Student's Perception about the Black Body Radiation, Photoelectric Effect and Compton Scattering Phenomena . *Journal of Studies in Education* , 309-326.
- Harika Ozge Arslan, C. C. (2012). AThree-Tier Diagnostic Test to Assess Pre-Service Teachers' Misconceptions about Global Warming, Greenhouse Effect, Ozone Layer Depletion, and Acid Rain. *International Journal of Science Education*, 1667-1686.

- Henry's bench. (t.thn.). *ICSG020A BH1750 Arduino Light Intensity Meter Tutorial*. Diambil kembali dari <http://henrysbench.capnfatz.com: http://henrysbench.capnfatz.com/henrys-bench/arduino-sensors-and-input/icsg020a-bh1750-arduino-light-intensity-meter-tutorial/>
- I, Z., V, V. K., Perfilieva, K., & Zasadny, I. (2018). Technique of measuring the emissivity coefficient of solid materials surface. *MATEC Web of Conferences 194* (hal. 1-6). Tomsk: EDP Science.
- Indrasari, W., Rustana, C. E., & Zulfikar, a. (2021). Development a practicum tools to measure the speed of the air using Arduino Uno Microcontroller. *The 10th International Conference on Theoretical and Applied Physics*, 1-5.
- Iswadi, D. (2003). *Pengembangan Media atau Alat Peraga Pembelajaran Matematika*. Bandung: UPI.
- Jan van den Akker, K. G. (2006). *Educational Design Research*. Abingdon, Oxon: Routledge.
- Jauhariyah, I. Z. (2016). Validity of student's misconceptions diagnosis on chapter Kinetic Theory of Gases using three-tier diagnostic test. *International Conference on Science Education (ICoSEd)*, 1-12.
- John L. McCuin, K. H. (2014). Comparing the Effects of Traditional vs. *Journal of Geoscience Education*, 445-449.
- Jones, J., Mason, P. E., & Williams, A. (2017). A Compilation of Data On The Radiant Emissivity of some materials at high temperatures. *Journal of the Energy Institute*, 1-26.
- Katz, D. M. (2017). *Physics for Scientists*. Boston,USA: Cengage Learning.
- Kemendikbud. (2012). *Dokumen Kurikulum 2013*. Jakarta: Kemendikbud.
- Kemendikbud, D. P. (2011). *Pembuatan alat peraga fisika untuk SMA*. Jakarta: 2011, Dirjen Sekolah Menengah Atas. Kemendikbud.
- Knight, R. D. (2007). The emission and absorbtion of Light. Dalam R. D. Knight, *Physics for scientis and engineer* (hal. 1231-1233). San Fransisco: Pearson.
- Köse, S. (2008). Diagnosing Student Misconceptions: Using Drawings as a Research Method. *World Applied Sciences Journal* , 3(2), 283-293.
- Kuczmann, I. (2017). The Structure of Knowledge and Students' Misconceptions in Physics. *AIP Conference Proceeding*. Budapest.

- Larciprete, M., Gloy, Y., Voti, R. L., Cesarini, G., Leahu, G., Bertolotti, M., & Sibilia, C. (2017). Temperature dependent emissivity of different stainless steel textiles. *International Journal of Thermal Sciences* 113 , 130-135.
- Leonty'na B'r'izov'a, J. ˇ. (2018). Simple microwave radiometer for laboratory exercises and demonstration experiments. *European Journal of Physics*, 1-9.
- Lucas, J. D., & Segovia, J. J. (2018). Measurement and Analysis of the Temperature Gradient of Blackbody Cavities, for Use in Radiation Thermometry. *Int J Thermophys* , 39-57.
- Malik, A., Zakwandi, R., Nurfalah, S., Nurhayati, N., Rochman, C., & Nasrudin, D. (2018). Measuring the coefficient of emissivity using thermal radiation equipment SNR V-1.4 SL. *3rd Annual Applied Science and Engineering Conference (AASEC 2018)* (hal. 1-6). Bandung: IOP Conf. Series: Materials Science and Engineering.
- Martin, R. E. (2001). *Teaching Science for All Children*. Allyn & Bacon.
- Mei, G., Zhang, J., Zhao, S., & Xie, Z. (2017). Design and analysis on fume exhaust system of blackbody cavity sensor for continuously measuring molten steel temperature. *AIP ADVANCES* 7, 1-6.
- Meredith D Gall, J. P. (2003). Educational Research and Development. Dalam J. P. Meredith D Gall, *Educational Research, An Introduction* (hal. 569). Boston, USA: Pearson Education. Inc.
- Mulyatiningsih, D. E. (2012). Research and Development. Dalam *Metode Penelitian Terapan Pendidikan* (hal. 199-202). Bandung: Alfabeta, CV.
- Murray, A. J., Cunane, P., & and Harvey, M. (2020). An undergraduate laboratory experiment. *European Journal of Physics*, 1-17.
- Optotherm, I. (2020, September 30). *Optotherm Support*. Diambil kembali dari optotherm.com: <https://www.optotherm.com/emiss-table.htm>
- Paul J. Emigh, G. P. (2013). Student Understanding of Blackbody Radiation and Its Application to Everyday Objects . *PERC Proceedings* (hal. 137-140). Seattle: The American Association of Physics Teachers .
- Permana, H., & Iswanto, B. H. (2018). Development of Thermal Radiation Experiments Kit Based on Data Logger for Physics Learning Media. *ICOMSET; Materials Science and Engineering* (hal. 1-7). Jakarta: IOP Conf. Series.
- Poprawski, W. G. (2015). Investigation of black body radiation with the aid of a self-made pyroelectric infrared detecto. *European Journal of Physics*, 1-9.
- Potvin, P. (2013). Proposition for improving the classical models of. *Neuroeducation*, 16-43.

- Putra, I. Y., Dasmo, D., Saraswati, D. L., Astuti, I. A., Nurullaeli, N., Bhakti, Y. B., & Rangka, I. B. (2018). Developing of physics practical module based on scientific method for students . *MSCEIS* (hal. 1-8). Jakarta: IOP Publishing.
- Qureshi, A. (2016, June 23). *10 Best K-Type Thermocouples For Arduino*. Diambil kembali dari Wonderfulengineering.com: <https://wonderfulengineering.com/10-best-k-type-thermocouples-for-arduino/>
- R Diani, J. A. (2018). Four-Tier Diagnostic Test With Certainty of Response. *YSSTEE2018. IOP Conf. Series: Journal of Physics:*, 1-9.
- Rahayu, A. S., Serevina, V., & Raihanati. (2016). Pengembangan Set Paktikum Pembiasan Cahaya Untuk Pembelajaran Fisika di SMA. *Seminar Nasional Fisika 2016* (hal. 1-6). Jakarta: Universitas Negeri Jakarta.
- Raymond A. Serway, J. W. (2014). Blackbody Radiation and Planck's Hypothesis. Dalam *Physics for Scientists and Engineers with Modern Physics* (hal. 1234-1238). Boston, USA: Brooks/Cole .
- Ren, D., Tan, H., Xuan, Y., Han, Y., & Li, Q. (2016). Apparatus for Measuring Spectral Emissivity of Solid Materials at Elevated Temperatures. *Int J Thermophys*, 1-20.
- Ruseffendi. (1994). *Dasar-dasar Penelitian Pendidikan&Bidang Non-Eksata Lainnya*. Semarang: IKIP Semarang.
- S Grohmann, M. L. (2019). Characterisation of the activation and reaction behaviour and determination of the emissivity of reactive nickel-aluminium particles with regenerated fibre Bragg gratings. *Materials Science and Engineering 480* (hal. 1-9). Munich: IOP Publishing.
- S Grohmann, M. L. (2019). Characterisation of the activation and reaction behaviour and determination of the emissivity of reactive nickel-aluminium particles with regenerated fibre Bragg gratings . *Materials Science and Engineering 480* (hal. 1-9). Munich, Germany: IOP Publishing .
- Saunders, P. (2017). Optimising Blackbody Cavity Shape for Specially Uniform Integrated Emissivity. *International Journal of Thermophysics*, 1-9.
- Sneddon, P. H., Slaughter, K. A., & Reid, N. (2009). Perceptions, views and opinions of university students about physics learning during practical work at school. *European Journal of Physics*, 1119-1129.
- Steven van den Berg, P. D. (2018). Traceability of the Network for Detection of the Mesospheric Change (NDMC) to radiometric standards via a Near Infrared Filter Radiometer. *Journal of Physics*, 1-6.
- Sugiyono, P. (2012). *Metode Penelitian dan Pengembangan*. Bandung: Alfabeta, CV.
- Sugiyono, P. D. (2012). Skala Pengukuran dan Instrumen Penelitian. Dalam *Metode Penelitian Pendidikan* (hal. 133-192). Bandung: Alfabeta, CV.

- Sugiyono, P. D. (2012). *Statistika Untuk Penelitian*. Bandung: Alfabeta, CV.
- Supriyono, K, V. A., Nurcaerani, K., Jihan, F., Puji, R. E., & Prily, T. H. (2019). Penerapan ISO 9126 Dalam Pengujian Kualitas Perangkat Lunak pada E-book. *Jurnal Ilmu Komputer dan Teknologi Informasi*, 9-13.
- Syarifah, W., Pujiyanti, A., & Supriyadi. (2019). Development of Centripetal Acceleration Practicum Based on Arduino Nano and Infrared Sensor with Dimmer Switch. *International Conference on Science and Education and Technology (ISET 2019)* (hal. 551-553). Semarang: Advances in Social Science, Education and Humanities Research.
- Taslidere, E. (2016). Development and use of a three-tier diagnostic test to assess high school students' misconceptions about the photoelectric effect. *Research in Science & Technological Education*, 1-23.
- Tipler. (2015). *Physics for university*. New York: Pearson.
- Tipler, P. A. (1996). *Fisika untuk sains dan teknik*. Jakarta: Worth Publisher, Inc alih bahasa oleh Penerbit Erlangga.
- V A Arkhipov, V. D. (2018). Technique of measuring the emissivity coefficient . *Thermophysics 2018* (hal. 1-4). Tomsk, Rusia: IOP Conf. Series: Journal of Physics: Conf. Series 1105.
- Wijaya, A. (2017). *Pengembangan Set Praktikum Kinematika Untuk Meningkatkan Keterampilan Proses Sains Siswa Pada Pembelajaran Derak Dua Dimensi di SMA*. Jakarta: Universitas Negeri Jakarta.
- Yikun Zhao, J. G. (2020). Comparative Study on Radiation Properties of Blackbody Cavity Model Based on Monte Carlo Method. *International Journal of Thermophysics 2020*, 1-11.
- Zheng, S., Yang, Y., Li, X., Liu, H., Yan, W., Sui, R., & Lu, Q. (2020). Temperature and emissivity measurements from combustion of pine wood, rice husk and fir wood using flame emission spectrum . *Fuel Processing Technology 204*, 1-7.