

## DAFTAR PUSTAKA

- [1] Hanny Berchmans, Saifudin Suaib, Imas Agustina, Richard Panjaitan, Winne, "Panduan Penghematan Energi di Gedung Pemerintah," no. 13, p. 100, 2014.
- [2] Green Building Council Indonesia, "High Performance Building (Green Building) As A Global Trend," *GBCI website*, 2012. [Online]. Available: <https://blog.gbcindonesia.org/high-performance-building-green-building-as-a-global-trend.html>. [Accessed: 13-Feb-2020].
- [3] BPPT, "Outlook Energi Indonesia 2018." Pusat Pengkajian Industri Proses dan Energi, Jakarta, 2018.
- [4] Biyik E, "A Key Review of Building Integrated Photovoltaic (BIPV) Systems," *Eng. Sci. Technol. Integr.*, vol. 20, pp. 833–858, 2017.
- [5] E. Leite Didone and A. Wagner, "Semi-transparent PV windows: A study for office buildings in Brazil," *Energy Build*, vol. 67, pp. 136–142, 2013.
- [6] J. Zhang, "Impact of urban block typology on building solar potential and energy use efficiency in tropical high-density city," *Appl. Energy*, vol. 240, pp. 513–533, 2019.
- [7] J. B. Lee, J. W. Park, J. H. Yoon, N. C. Baek, D. K. Kim, and U. C. Shin, "An empirical study of performance characteristics of BIPV (Building Integrated Photovoltaic) system for realization of Zero Energy Building," *Energy*, vol. 66, pp. 25–34, 2014.
- [8] Ng Poh Khai, "Semi-Transparent Building-Integrated Photovoltaic (BIPV) Windows For The Tropics," *Disertasi, Dep. Archit. Natl. Univ. Singapore, Singapura*, 2014.
- [9] Yusuf Ginanjar, "Perancangan dan Analisis Building Integrated Photovoltaic (BIPV) Jenis Thin Film untuk Jendela Gedung KLMB Universitas Gadjah Mada," *Skripsi, Dep. Tek. Nukl. dan Tek. Fis. Univ. Gadjah Mada*, 2016.
- [10] Ng Poh Khai, N. Mithraratne, and H. W. Kua, "Energy analysis of semi-transparent BIPV in Singapore buildings," *Energy Build*, vol. 66, pp. 274–281, 2013.

- [11] Yanyi Sun, Katie Shanks, Hasan Baig, and Wei Zhang, "Integrated CDTe PV glazing into windows: energy and daylight performance for different window-to-wall ratio," *Energy Procedia*, vol. 158, pp. 3014–3019, 2019.
- [12] T. Miyazaki, A. Akisawa, and T. Kashiwagi, "Energy savings of office buildings by the use of semi-transparent solar cells for windows," *Renew. Energy*, vol. 30, pp. 281–304, 2005.
- [13] K. Kapsis, V. Dermardiros, and A. K. Athienitis, "Daylight performance of perimeter office facades utilizing semi-transparent photovoltaic windows: a simulation study," *Energy Procedia*, vol. 78, pp. 334–339, 2015.
- [14] Daryanto, *Energi: Masalah dan Pemanfaatannya Bagi Kehidupan Manusia*. Malang: Pustaka Widyatama, 2007.
- [15] Arno Smets, Klaus Jager, Clindo Isabella, Ken Van Swaaij, and Miro. Zeman, *Solar Energy, The Physics and Energy of Photovoltaic Conversion Technologies and System*. Inggris: UIT Cambridge, 2016.
- [16] Deutsche Gesellschaft fur Sonnenenergie, *Planning and Installing Photovoltaic Systems : A Guide for Installers, architects, and engineers*. 2004.
- [17] Stuart R. Wenham, Martin A. Green, Muriel E. Watt, and Richard Corkish, *Applied Photovoltaic*. London, UK: TJ International Ltd, 2007.
- [18] W. Z. Hasan, Zainal Kadir, and Suhaidi Shafie, "GPS based portable dual-axis solar tracking system using astronomical equation," in *IEEE International Conference Power & Energy (PECON)*, 2014, pp. 245–249.
- [19] R. M. Dell and D. A. J. Rand, *Clean Energy: Handbook for financial service institutions*. 2014.
- [20] PV Education, "Average Solar Radiation," 2019. [Online]. Available: <https://www.pveducation.org/pvcdrom/properties-of-sunlight/average-solar-radiation>.
- [21] Lumenistic, "What is Full Spectrum Lighting?" [Online]. Available: <http://lumenistics.com/whatis-%0Afull-spectrum-lighting>.
- [22] Robert Eisberg, *Quantum Physics of Atom, Molecules, Solids, Nuclei, and Particles*. United States of America, 1985.

- [23] Anonim, "Electric Flux." [Online]. Available: <http://hyperphysics.phy-astr.gsu.edu/hbase/electric/gaulaw.html>.
- [24] PVEducation, "Spectral Irradiance," 2019. [Online]. Available: <https://www.pveducation.org/pvcdrom/properties-of-sunlight/spectral-irradiance>.
- [25] G. S. May and Simon M. Sze, "Fundamental of Semiconductor Fabrication." 2004.
- [26] Abdul Qayoom Jakhrani, Saleem Samo, Shakeel Ahmed Kamboh, and J. Labadin, "An Improved Mathematical Model for Computing Power Output of Solar Photovoltaic Modules," *Int. J. Photoenergy*, pp. 1–9, 2014.
- [27] PV Education, "Nominal Operating Cell Temperature." [Online]. Available: <https://www.pveducation.org/pvcdrom/modules-and-arrays/nominal-operating-cell-temperature>. [Accessed: 01-Jul-2020].
- [28] C. Peng, Y. Huang, and Z. Wu, "Building-integrated photovoltaics (BIPV) in architectural design in China," *Energy Build*, vol. 43, pp. 3592–3598, 2011.
- [29] A. R. Othman and A. T. Rushdi, "Potential of Building Integrated Photovoltaic Application on Roof Top of Residential Development in Shah Alam," *Procedia - Soc. Behave. Sci*, vol. 153, pp. 491–500, 2014.
- [30] Solar Power Europe, "Building Integrated Solar." [Online]. Available: <https://www.solarpowereurope.org/priorities/solar-buildings/>. [Accessed: 02-Jul-2020].
- [31] K. Zweibel, "Thin Film Photovoltaic," *Technol. Crit. Role Energy Environ. Mark. New Mex.*, 1998.
- [32] Proxectos, "Solar Cell." [Online]. Available: <http://proxectos.citius.usc.es/semiconductorSimulation/solarcells/>. [Accessed: 02-Jul-2020].
- [33] NREL, "Cadmium Telluride Solar Cell." [Online]. Available: <https://www.nrel.gov/pv/cadmium-telluride-solar-cells.html/>. [Accessed: 02-Jul-2020].
- [34] S. Ullal and B. Von Roedern, "Thin Film CIGS and CdTe Photovoltaic

- Technologies: Commercialization, Critical Issues, and Applications,” *NREL*. [Online]. Available: <https://www.nrel.gov/docs/fy07osti/42058.pdf/>. [Accessed: 02-Jul-2020].
- [35] Energy Sage, “Types of thin film solar panels.” [Online]. Available: <https://www.energysage.com/solar/101/about-solar-panels/thin-film-solar-panels-amorphous-cadmium-telluride-and-cigs/>. [Accessed: 25-Jun-2020].
- [36] Hameed Alrashidi and R. Energymay, “Performance Evaluation of Semi-transparent CdTe Thin Film Photovoltaic for Building Façade Applications,” no. May, 2019.
- [37] Warren B. Boast, *Illumination Engineering*. New York: McGraw-Hill Book Company, Inc, 1953.
- [38] Eurobaltronics, “Basic Lighting Knowledges.” [Online]. Available: <http://www.eurobaltronics.com/eng/support/faq/?doc=944>.
- [39] BSN, *Tata Cara Perancangan Sistem Pencahayaan Alami Pada Bangunan Gedung*. Jakarta: Badan Standarisasi Nasional, 2001.
- [40] Gregg D. Ander, “Daylight WBDG (Whole Building Design Guide),” *National Institute of Building Science*. [Online]. Available: <http://www.wbdg.org/resources/daylighting.php>.
- [41] VELUX, “Daylight calculation and measurement.” [Online]. Available: <https://www.velux.com/deic/daylight/daylight-calculations-and-measurements>.
- [42] Green Building Council Indonesia, “Perangkat Penilaian GREENSHIP (GREENSHIP Rating Tools),” *Greensh. New Build. Versi 1.2*, no. April, 2013.
- [43] IES-VE, “Introducing the Virtual Enironment.” [Online]. Available: [https://help.iesve.com/ve18/intoducing\\_the\\_virtual\\_environment](https://help.iesve.com/ve18/intoducing_the_virtual_environment).
- [44] IES-VE, “Solar Radiation,” *help.iesve*. [Online]. Available: [https://help.iesve.com/ve2018/solar\\_radiation.htm#](https://help.iesve.com/ve2018/solar_radiation.htm#).
- [45] Charity Lu, Alex Roetter, and Amy Schultz, “Sophomore College Ray Tracing Site.” [Online]. Available: <https://cs.stanford.edu/people/eroberts/courses/soco/projects/1997-98/ray->

tracing/index.html. [Accessed: 16-Jun-2020].

- [46] Meteotest, "Meteonorm." [Online]. Available: <https://meteonorm.com/en>. [Accessed: 10-Jun-2020].
- [47] K. N. Shukla, Saroj Rangnekar, and K. Sudhakar, "Comparative study of isotropic and anisotropic sky models to estimate solar radiation incident on tilted surface : A case study for Bhopal , India," *Energy Reports*, vol. 1, pp. 96–103, 2015, doi: 10.1016/j.egyr.2015.03.003.
- [48] Dorota Chwieduk, "Chapter 2 - Availability of Solar Radiation on the Earth," D. B. T.-S. E. in B. Chwieduk, Ed. Oxford: Academic Press, 2014, pp. 21–62.
- [49] Amplesun, "Amorphous solar panels." [Online]. Available: [https://www.alibaba.com/product-detail/ASG090-20-transmission-amorphous-solar-panels\\_62468023347.html?spm=a2700.galleryofferlist.0.0.3e411bc8nZFK6r](https://www.alibaba.com/product-detail/ASG090-20-transmission-amorphous-solar-panels_62468023347.html?spm=a2700.galleryofferlist.0.0.3e411bc8nZFK6r).
- [50] Stanislav Darula, Richard Kittler, and Dubravka Road, "Cie general sky standard defining luminance distributions," 2015.
- [51] IES-VE, "RadianceIES: Lighting Simulation." [Online]. Available: [https://help.iesve.com/ve2018/view\\_images\\_\\_\\_sky\\_eye.htm?ms=QgAAAAAUA%3D&st=MA%3D%3D&sct=MjQ%3D&mw=MjQw#](https://help.iesve.com/ve2018/view_images___sky_eye.htm?ms=QgAAAAAUA%3D&st=MA%3D%3D&sct=MjQ%3D&mw=MjQw#). [Accessed: 01-Jul-2020].
- [52] Standar Nasional Indonesia and Badan Standardisasi Nasional, "Konservasi energi pada sistem pencahayaan," 2011.
- [53] Kementerian Energi Sumber Daya Mineral Indonesia, "Nilai Standar IKE di Bangunan Gedung Perkantoran," 2012.