

## DAFTAR PUSTAKA

- [1] International Atomic Energy Agency, “Research Reactor Database.” Diakses: 26 Mei 2024. [Daring]. Tersedia pada: <https://nucleus.iaea.org/rrdb/#/home>
- [2] International Atomic Energy Agency, *Radiological Characterization of Shut Down Nuclear Reactors for Decommissioning Purposes*. dalam Technical Reports Series, no. 389. Vienna: International Atomic Energy Agency, 1998. [Daring]. Tersedia pada: <https://www.iaea.org/publications/5723/radiological-characterization-of-shut-down-nuclear-reactors-for-decommissioning-purposes>
- [3] OECD dan Nuclear Energy Agency, *The Decommissioning and Dismantling of Nuclear Facilities: Status, Approaches, Challenges*. dalam Radioactive Waste Management. OECD, 2003. doi: 10.1787/9789264184886-en.
- [4] International Atomic Energy Agency, *Global Status of Decommissioning of Nuclear Installations*. dalam Nuclear Energy Series, no. NW-T-2.16. Vienna: International Atomic Energy Agency, 2023. [Daring]. Tersedia pada: <https://www.iaea.org/publications/15197/global-status-of-decommissioning-of-nuclear-installations>
- [5] R. Sumarbagiono *dkk.*, “Estimation of radionuclides in Bandung TRIGA 2000 reactor core components: A focus on aluminum and its implications for decommissioning planning,” *Nucl. Eng. Des.*, vol. 426, hlm. 113373, Sep 2024, doi: 10.1016/j.nucengdes.2024.113373.
- [6] A. Rätty dan P. Kotiluoto, “FiR 1 TRIGA Activity Inventories for Decommissioning Planning,” *Nucl. Technol.*, vol. 194, no. 1, hlm. 28–38, Apr 2016, doi: 10.13182/NT15-86.
- [7] A. Septilarso, D. Kawasaki, dan S. Yanagihara, “Radioactive waste inventory estimation of a research reactor for decommissioning scenario development,” *J. Nucl. Sci. Technol.*, vol. 57, no. 3, hlm. 253–262, Mar 2020, doi: 10.1080/00223131.2019.1667923.



- [8] M. Cagnazzo, “Neutronic modelling of the new TRIGA core and experimental validation,” PhD Thesis, Technische Universität Wien, 2018. Diakses: 27 Agustus 2024. [Daring]. Tersedia pada: <https://scholar.archive.org/work/bjopsr5r2vaelikfzrx7jrea2m/access/wayback/https://repositum.tuwien.at/bitstream/20.500.12708/6165/2/Cagnazzo%20Marcella%20-%202018%20-%20Neutronic%20modelling%20of%20the%20new%20TRIGA%20core%20and...pdf>
- [9] A. Borio di Tigliole *dkk.*, “TRIGA reactor absolute neutron flux measurement using activated isotopes,” *Prog. Nucl. Energy*, vol. 70, hlm. 249–255, Jan 2014, doi: 10.1016/j.pnucene.2013.10.001.
- [10] D. Lababsa, H. Mazrou, dan M. Belgaid, “Performance evaluation and validation of OpenMC code for criticality analysis of an MTR-type research reactor,” *Ann. Nucl. Energy*, vol. 206, hlm. 110617, Okt 2024, doi: 10.1016/j.anucene.2024.110617.
- [11] Badan Pengawas Tenaga Nuklir, “Peraturan Kepala Badan Pengawas Tenaga Nuklir Nomor 4 Tahun 2009 tentang Dekomisioning Reaktor Nuklir,” JDIH Badan Pengawas Tenaga Nuklir. Diakses: 26 Februari 2024. [Daring]. Tersedia pada: <https://jdih.bapeten.go.id/id/dokumen/peraturan/peraturan-kepala-badan-pengawas-tenaga-nuklir-noomr-4-tahun-2009-tentang-dekomisioning-reaktor-nuklir>
- [12] International Atomic Energy Agency, “Decommissioning of Facilities,” International Atomic Energy Agency, Text, 2014. Diakses: 4 September 2024. [Daring]. Tersedia pada: <https://www.iaea.org/publications/10676/decommissioning-of-facilities>
- [13] International Atomic Energy Agency, “Decommissioning of Nuclear Power Plants, Research Reactors and Other Nuclear Fuel Cycle Facilities,” International Atomic Energy Agency, Text, 2018. doi: 10/decommissioning-



of-nuclear-power-plants-research-reactors-and-other-nuclear-fuel-cycle-facilities.

- [14] P. Saidi, M. Sadeghi, C. Tenreiro, P. Saidi, M. Sadeghi, dan C. Tenreiro, “Variance Reduction of Monte Carlo Simulation in Nuclear Engineering Field,” dalam *Theory and Applications of Monte Carlo Simulations*, IntechOpen, 2013. doi: 10.5772/53384.
- [15] A. Haghighat, *Monte Carlo Methods for Particle Transport*, 2 ed. Second edition. | Boca Raton : CRC Press, 2021.: CRC Press, 2020. doi: 10.1201/9780429198397.
- [16] P. K. Romano dan B. Forget, “The OpenMC Monte Carlo particle transport code,” *Ann. Nucl. Energy*, vol. 51, hlm. 274–281, Jan 2013, doi: 10.1016/j.anucene.2012.06.040.
- [17] P. K. Romano, N. E. Horelik, B. R. Herman, A. G. Nelson, B. Forget, dan K. Smith, “OpenMC: A state-of-the-art Monte Carlo code for research and development,” *Ann. Nucl. Energy*, vol. 82, hlm. 90–97, Agu 2015, doi: 10.1016/j.anucene.2014.07.048.
- [18] H. Raffles, M. Ilham, Z. Su’ud, A. Waris, dan D. Irwanto, “Comparative Study on Fuel Assembly of Modular Gas-cooled Fast Reactor using MCNP and OpenMC Code,” *J. Phys. Conf. Ser.*, vol. 1772, no. 1, hlm. 012031, Feb 2021, doi: 10.1088/1742-6596/1772/1/012031.
- [19] K. Banerjee, “Kernel Density Estimator Methods for Monte Carlo Radiation Transport.,” Jan 2010.
- [20] “1. State Point File Format — OpenMC Documentation.” Diakses: 29 Desember 2024. [Daring]. Tersedia pada: [https://docs.openmc.org/en/stable/io\\_formats/statepoint.html?highlight=collission](https://docs.openmc.org/en/stable/io_formats/statepoint.html?highlight=collission)
- [21] J. J. Duderstadt dan L. J. Hamilton, *Nuclear reactor analysis*. New York: Wiley, 1976.



- [22] “8. Specifying Tallies — OpenMC Documentation.” Diakses: 28 Mei 2024. [Daring]. Tersedia pada: <https://docs.openmc.org/en/stable/usersguide/tallies.html>
- [23] B. H. Thacker, S. W. Doebling, F. M. Hemez, M. C. Anderson, J. E. Pepin, dan E. A. Rodriguez, “Concepts of Model Verification and Validation,” Los Alamos National Lab. (LANL), Los Alamos, NM (United States), LA-14167, Okt 2004. doi: 10.2172/835920.
- [24] American Institute of Aeronautics and Astronautics, “Guide: Guide for the Verification and Validation of Computational Fluid Dynamics Simulations (AIAA G-077-1998(2002)),” dalam *Guide: Guide for the Verification and Validation of Computational Fluid Dynamics Simulations (AIAA G-077-1998(2002))*, dalam AIAA Standards. , American Institute of Aeronautics and Astronautics, Inc., 1998. doi: 10.2514/4.472855.001.
- [25] “Nuclear Energy Agency (NEA) - Benchmark for Neutronic Analysis of Sodium-cooled Fast Reactor Cores with Various Fuel Types and Core Sizes.” Diakses: 28 Desember 2024. [Daring]. Tersedia pada: [https://www.oecd-neo.org/jcms/pl\\_19682/benchmark-for-neutronic-analysis-of-sodium-cooled-fast-reactor-cores-with-various-fuel-types-and-core-sizes?details=true](https://www.oecd-neo.org/jcms/pl_19682/benchmark-for-neutronic-analysis-of-sodium-cooled-fast-reactor-cores-with-various-fuel-types-and-core-sizes?details=true)
- [26] G. Ilas, J. R. Burns, B. D. Hiscox, dan U. Mertyurek, “SCALE 6.2. 4 Validation: Reactor Physics,” Oak Ridge National Laboratory (ORNL), Oak Ridge, TN (United States), 2022. Diakses: 28 Desember 2024. [Daring]. Tersedia pada: <https://www.osti.gov/biblio/1902818>

