

DAFTAR PUSTAKA

- [1] *Accident Management Insight after the Fukushima Daiichi NPP Accident*. Nuclear Energy Agency, 2014. Diakses dari https://www.oecd-nea.org/jcms/pl_19415, 23 Juni 2019.
- [2] L.J. Ott, K.R. Robb, dan D. Wang. "Preliminary assessment of accident-tolerant fuels on LWR performance during normal operation and under DB and BDB accident conditions". *Journal of Nuclear Materials*, 520-533, 2014.
- [3] Jasimna Vujic, Ryan M. Bergmann, Radek Skoda dan Marija Miletic. "Small modular reactors: Simpler, safer, cheaper?". *ENERGY*, 45:288-295, 2012.
- [4] Arief Rahman Hakim, Andang Widi Harto dan Alexander Agung. "Neutronic analysis of fuel assembly design in Small_PWR using uranium mononitride fully ceramic micro-encapsulated fuel using SCALE and Serpent codes". *Nuclear Engineering and Technology*, 51:1-12, 2019.
- [5] Weston M. Stacey. *Nuclear Reactor Physics*. John Wiley & Sons, inc., New York, 2003.
- [6] Alberto Talamo, Manuel A. Pouchon dan Francesco Venneri. "Alternative configuration for the QUADRISO fuel design concept". *Journal of Nuclear Materials*, 383:264-266, 2009.
- [7] William F. Skerjanc, John T. Maki, Blaise P. Collin dan David A. Petti. "Evaluation of design parameters for TRISO-coated fuel particles to establish manufacturing critical limits using PARFUME". *Journal of Nuclear Materials*, 469:99-105, 2016.
- [8] International Atomic Energy Agency. "Introduction". *Advances in Small Modular Reactor Technology Developments*, hal. 1-4, Vienna, 2018.
- [9] L. L. Snead, F. Venneri, Y. Kim, K. A. Terrani, J.E. Tulenko, C. W. Forsberg, P. F. Peterson dan E. J. Lahoda. "Fully Ceramic Microencapsulated Fuels: A Transformational Technology for Present and Next Generation Reactors". *American Nuclear Society*, 104:671-674, 2011.
- [10] Michael A. Pope, R. Sonat Sen, Abderrafi M. Ougouag, Gilles Youinoi dan Brian Boer. "Neutronic analysis of the burning of transuranics in fully ceramic micro-encapsulated tri-isotropic particle-fuel in a PWR". *Nuclear Engineering and Design*, 252:215-225, 2012.
- [11] Alberto Talamo. "A novel concept of QUADRISO particles. Part II: Utilization for excess reactivity control". *Nuclear Engineering and Design*, 240:1919-1927, 2010.
- [12] John R. Lamarsh dan Anthony J. Baratta. *Introduction to Nuclear Engineering*. John Wiley & Sons, Inc., New York, 1978.
- [13] Alexander Agung. *Diktat Kuliah Analisis Reaktor Nuklir*. Diktat, UGM, Yogyakarta, 2017.
- [14] Robert L. Harrison. "Introduction To Monte Carlo Simulation". AIP Conference Proceeding, 1204:17-21, 2010.
- [15] Forest B. Brown. "Monte Carlo techniques for Nuclear Systems – Theory Lectures". Presentasi Kuliah, University of New Mexico. Diakses dari



<https://www.osti.gov/biblio/1334102-monte-carlo-techniques-nuclear-systems-theory-lectures>, pada tanggal 21 Maret 2021.

- [16] T. J. G. van Kruchten. *Calculating the variance of k_{eff} over neutron chains in Monte Carlo criticality calculations*. Tesis, Faculty of Applied Sciences, Department of Radiation, Radionuclides & Reactors, Delft University of Technology, 2013.
- [17] Jan Dufek. *Development of New Monte Carlo Methods in Reactor Physics*. Tesis, School of Engineering Sciences, KTH Royal Institute of Technology, Stockholm, Sweden, 2009.
- [18] Jaakko Leppänen. *Development of a New Monte Carlo Reactor Physics Code*. Disertasi, Aalto University, Espoo, Finland, 2007.
- [19] Alexander Agung. “Burn up dan Konversi”. Kuliah *Manajemen Bahan Bakar dalam Teras Reaktor Nuklir*, UGM, Yogyakarta. 2021.
- [20] “Predictor-Corrector Methods”. Workbook, Loughborough University. Diakses dari https://learn.lboro.ac.uk/archive/olmp/olmp_resources/pages/workbooks_1_50_jan2008/Workbook32/32_3_prdctr_crctr_methds.pdf, pada tanggal 21 Maret 2021
- [21] J. L. Kloosterman. “Application of boron and gadolinium burnable poison particles in UO_2 and PuO_2 fuels in HTRs”. *Annals of Nuclear Energy*, 30:1807-1819, 2003.
- [22] J. Washington, J. King, dan Z. Shayer. “Selection and evaluation of potential burnable absorbers incorporated into modified TRISO particles”. *Nuclear Engineering and Design*, 278:377-386, 2014.
- [23] James J. Duderstadt dan Louis J. Hamilton. *Nuclear Reactor Analysis*. John Wiley & Sons, New York, 1976.
- [24] Jaakko Leppänen, Maria Pusa, Tuomas Viitanen, Ville Valtavirta, dan Toni Kaltiaisenaho. “The Serpent Monte Carlo code: status, development and applications in 2013”. *Annals of Nuclear Energy*, 82:142-150, 2015.
- [25] Jaakko Leppänen. *Burnup calculation methodology in Serpent*. VTT. Diakses dari http://montecarlo.vtt.fi/download/Serpent2_BU.pdf, 21 Maret 2021
- [26] Jaakko Leppänen. *PSG2/Serpent – a Continuous-energy Monte Carlo Reactor Physics Burnup Calculation Code: Methodology – User’s Manual – Validation Report*. Dokumen Teknis, VTT Technical Research Centre of Finland, Ltd., Finland, 2009.
- [27] Royal Society of Chemistry. *Gadolinium*. Diakses dari <https://www.rsc.org/periodic-table/element/64/gadolinium>, pada tanggal 21 Maret 2021.
- [28] C. E. Sanders dan J. C. Wagner. *Study of the Effect of Integral Burnable Absorbers for PWR Burnup Credit*. U.S. Nuclear Regulatory Commission, Washington, DC, 2002.

