

DAFTAR PUSTAKA

- Akkurt, H., & Eckerman, K. F. (2007). *Development of PIMAL : Mathematical Phantom with Moving Arms and Legs*. UT-BATTELLE, LLC for the U.S. Department of Energy: Oak Ridge National Laboratory.
- Allardice, A. (2014). *Neutron Production and Transport at a Medical Linear Accelerator*. Colorado State University Colorado: Department of Environmental and Radiological Health Sciences.
- American Thyroid Association. (2015). *American Thyroid Association Management Guidelines for Adult Patients with Thyroid Nodules and differentiated Thyroid Cancer*. Mary Ann Liebert Inc.
- Ardana, I. M., & Sardjono, Y. (2017). Optimization Of A Neutron Beam Shaping Assembly Design For BNCT and Its Dosimetry Simulation Based On MCNPX. *Tek. Reaktor. Nukl*, 121-130.
- BAPETEN. (2010). *Peraturan Kepala Badan Pengawas Tenaga Nuklir Nomor 6 Tahun 2010 Tentang Pemantauan Kesehatan untuk Pekerja Radiasi*. Jakarta: BAPETEN.
- Bavarnegin, E., Kasesaz, Y., & Wagner, F. (2017). Neutron Beams Implemented at Nuclear Research Reactors for BNCT. *Journal of Instrumentation*, 1-4.
- Beyzadeoglu, M., Ebruli, C., & Gokhan, O. (2010). *Basic Radiation Oncology*. London: Springer VBH.
- Bielajew, A. (2001). *Fundamental of the Monte Carlo Method for the Neutral and Charged Particle Transport*. Michigan, USA: The University of Michigan.
- Bilalodin, Suparta, G., Hermanto, A., Palupi, D., Sardjono, Y., & Rasito. (2019). Optimization and Analysis of Neutron Distribution on 30 MeV Cyclotron-Based Double Layer Beam Shaping Assembly (DLBSA). *Engineering and Methods of Experiment*, 70-75.
- Burlon, A. (2011). Design of a beam shaping assembly and preliminary modeling of a treatment room for accelerator-based BNCT at CNEA. *Applied Radiation and Isotopes* 69 (1) 1688.
- Deng, L., Chen, C., Ye, T., & Li, G. (2001). *The Dosimetry Calculation for Boron Neutron Capture Therapy*. Shanghai-China: INTECH.
- Faghihi, F., & Khalili, S. (2013). Beam Shaping Assembly of a D – T Neutron Source for BNCT and its Dosimetry Simulation in Deeply-seated Tumor. *Radiation Physics and Chemistry* vol 89, 1–13.

- Gibson, J. (2002). *Fisiologi dan Anatomi Modern untuk Perawat*. Jakarta: EGC.
- IAEA. (2001). Current Status of Neutron Capture Therapy. Viena : IAEA, ISSN 1011-4289.
- Iman, A. Z. (2018). *Analisis Dosis Pengobatan Kanker Pankreas Dengan Boron Neutron Capture Therapy (BNCT) Menggunakan Program Particle and Heavy Ion Transport Code (PHITS)*. Yogyakarta: Universitas Negeri Yogyakarta.
- IAEA. (2020). *Particle and Heavy Ion Transport Code System (PHITS)*. Retrieved from <https://phits.jaea.go.jp/>
- Japanese Society of Neutron Therapy. (2018). *What is BNCT?* Retrieved from http://www.jsnct.jp/e/about_nct/
- Lazarine, A. (2006). *Medical Physics Calculation with MCNP: A Primer, A Thesis*. Texas: Texas A&M University.
- Lee, P., Liu, Y., & Jiang, S. (2014). Dosimetric Performance Evaluation Regarding Proton Beam Incident Angles of a Lithium Based AB-BNCT Design. *Radiation Protection Dosimetry*, vol. 161, no. 1, 403-409.
- Mahmud, K. (2017). *Analisis Dosis Boron Neutron Capture Therapy (BNCT) pada Kanker Otak (Glioblastoma Multiform) Menggunakan MCNPX-Code dengan Sumber Neutron dari Kolimator Kolom Termal Reaktor Kartini*. Yogyakarta: Universitas Negeri Yogyakarta.
- Martin, J. E. (2006). *Physics for Radiation Protection, 2nd ed*. Weinheim: Wiley-Vch Verlag GmbH & Co.
- Moss, R. (2015). Critical Review With an Optimistic Outlook on Boron Neutron Capture Therapy (BNCT). *Applied Radiation and Isotopes* vol. 88, 2-11.
- Muslih, I., Sardjono, Y., & Widiarto, A. (2014). Perancangan Kolimator di Beam Port Tembus Reaktor Kartini Untuk Boron Neutron Capture Therapy. *Penelitian Dasar Ilmu Pengetahuan dan Teknologi Nuklir Pusat Sains dan Teknologi Akselerator - BATAN*, 163-178.
- Ningrum, N. R., & Fuad, Y. (2017). *Stabilitas Sistem Dinamik Pertumbuhan Sel Kanker Dengan Terapi Radiasi*. Surabaya: Universitas Negeri Surabaya.
- Oktajianto, H., & Setiawati, E. (2016). Monte Carlo Simulation in Internal Radiotherapy of Thyroid Cancer. *International Journal of Engineering Technologies and Management Research*, 16-24.
- Rasouli, & Masoudi. (2012). Design and Optimization of a Beam Sha ping Assembly for BNCT based on D-T Neutron Generator and Dose Evaluation

- using a Simulated Head Fantom. *Applied Radiation Isotopes*, vol. 70, no. 12, 2755-2762.
- Rosidah, S. (2017). *Analisis Dosis Boron Neutron Capture Therapy (BNCT) pada Kanker Kulit Melanoma Menggunakan MCNPX dengan Sumber Neutron dari Kolom Termal Reaktor Kartini*. Yogyakarta: Universitas Negeri Yogyakarta.
- Sardjono, Y., Harto, A., Arrozi, M., Irhas, Santoso, B., & Tanthawi, H. (2015). *Pengantar Monte Carlo N-Partikel Dasar-dasar perancangan fasilitas Boron Neutron-capture Cancer Therapy*. (Kusminarto, Ed.). Yogyakarta: Jogja Bangkit Publisher.
- Saurwein, W. A., & Moss, R. L. (2009). *Requirements for Boron Neutron Capture Therapy (BNCT) at a Nuclear Research Reactor*. Luxemburgo: Office for Official Publications of the European Communities.
- Siwi, D. (2013). *Analisis Dosis Di Organ Kritis Pada Terapi Glioblastoma dengan Boron Neutron Capture Teraphy Menggunakan Metode Simulasi MCNP5*. Yogyakarta: Universitas Gadjah Mada.
- Statathos. (2006). *Anatomy and physiology of the thyroid gland clinical correlates to thyroid cancer*. In: Wartofsky L, Nostrand DV, editors. *Thyroid cancer a comprehensive guide to clinical management*. 2nd ed. New Jersey: Humana press.
- Stewart, W., & Rizzolo, L. (2007). *Embryology and surgical anatomy of the thyroid and parathyroid gland*. In: Oertli D, Udelsman R, editors. *Surgery of the thyroid and para thyroid gland*. 1st. New York: Springer Berlin Heidelberg.
- Syahria, Setiawati, E., & Firdausi, K. S. (2012). *Pembuatan Kurva Isodosis Paparan Radiasi di Ruang Pemeriksaan Instalasi Radiologi RSUD Ksupaten Kolaka - Sulawesi Tenggara*. Semarang: UNDIP.
- Syamputra, D. N. (2018). *Analisis Dosis Pengobatan BNCT pada Kanker Rhabdomyosarcoma di Kepala dan Leher dengan PHITS Code*. Yogyakarta: Universitas Negeri Yogyakarta.
- Tanaka, H. (2011). Experimental verification of beam characteristics for cyclotron-based epithermal neu-tron source (CBENS). *Applied Radiation and Isotopes* 69(12) 1642.
- Widarto. (2002). *Analisis Dan Penentuan Distribusi Fluks Neutron Saluran Tembus Radial Untuk Pendayagunaan Reaktor Kartini*. Jakarta: Laporan penelitian, Lembaga Ilmu Pengetahuan Indonesia.
- Wolfgang, A., Sauerwein, Pierre, M., & Andre, W. (2013). Neutron capture therapy. *Drugs for BNCT*, 117-161.