



DAFTAR PUSTAKA

- [1] Nicholas Tsoulfanidis. *Measurement and Detection of Radiation*. Taylor & Francis, Washington DC, 1995.
- [2] Batan. *Asal Dosis dan Prosentasenya*. Diakses dari http://www.batan.go.id/pusdiklat/elearning/proteksiradiasi/pengenalan_radiasi/2-2.htm, 5 September 2015.
- [3] Herman Cember dan Thomas E. Johnson. *Introduction to Health Physics*. McGraw-Hill, Illinois, 2009.
- [4] *Recommendation of the International Commission on Radiological Protection*. Dokumen teknis, ICRP Publication No. 60, ICRP, 1990.
- [5] Nina Fauziah. *A Conceptual Design Of Neutron Collimator In The Thermal Column Of Kartini Research Reactor For Boron Neutron Capture Therapy*. Jurusan Teknik Fisika, Fakultas Teknik, Universitas Gadjah Mada, 2013.
- [6] Bambang Hadi Santoso. *Pemodelan Perisai Radiasi Fasilitas BNCT Dengan Sumber Beampoint Tembus Teras Reaktor Kartini Menggunakan MCNP5*. Skripsi, Jurusan Teknik Fisika, Fakultas Teknik, Universitas Gadjah Mada, Yogyakarta, 2014.
- [7] Wolfgang A.G. Sauerwein, Andrea Wittig, Raymond Moss dan Yoshinobu Nakagawa. *Neutron Capture Therapy: Principles and Applications*. Springer, Berlin, 2012.
- [8] MIT. *The Basics of Boron Neutron Capture Therapy*. Diakses dari <http://web.mit.edu/nrl/www/bnct/info/description/description.html>, 5 September 2015
- [9] S. Bortolussi dan S. Altieri. "Thermal neutron irradiation field design for boron neutron capture therapy of human explanted liver". *Med Phys* 34, 4700–4705, 2007.
- [10] M Kortesniemi. *Solutions for clinical implementation of boron neutron capture therapy in Finland*. Disertasi, University of Helsinki, Helsinki, 2002.
- [11] Mehdi Pouryavi, S. Farhad Masoudi dan Faezeh Rahmani. "Radiation shielding design of BNCT treatment room for D-T neutron source". *Applied Radiation and Isotopes*, 90-96, 2015.
- [12] Elbio Calzada, Florian Grunaer, Burkhard Schillinger dan Harald Turk. "Reusable shielding material for neutron- and gamma-radiation". *Nuclear Instruments and Methods in Physics Research A*, 77-80, 2011.



- [13] Osman Gencel, Ahmet Bozkurt, Erol Kam dan Turgay Korkut. "Determination and calculation of gamma and neutron shielding characteristics of concretes containing different hematite proportions". *Annals of Nuclear Energy*, 2719-2723, 2011.
- [14] Hosain Ghiasi dan Asghar Mebahi. "A new analytical formula for neutron capture gamma dose calculations in double-bend mazes in radiation therapy". *Reports of practical oncology and radiotherapy*, 220-225, 2012.
- [15] Ming-Chen Hsiao, Yuan-Hao Liu dan Shiang-Huei Jiang. "Computational study of room scattering influence in the THOR BNCT treatment room". *Applied Radiation and Isotopes*, 162-166, 2014.
- [16] Mohd Rafi Mohd Solleh, Abd. Aziz Tajuddin, Abdul Aziz Mohamed, Eid Mahmoud Eid, Abdel Munem, Mohamad Hairie Rabir, Julia Abd. Karim dan Kiyanagi Yoshiaki. "COLLIMATOR AND SHIELDING DESIGN FOR BORON NEUTRON CAPTURE THERAPY (BNCT) FACILITLY AT TRIGA MARK II REACTOR". *JOURNAL Of NUCLEAR And Related TECHNOLOGIES*, Volume 8, No. 2, 2011.
- [17] Vishnawath P. Singh dan N.M. Badiger. "Gamma ray and neutron shielding properties of some alloy materials". *Annals of Nuclear Energy*, 301-310, 2014.
- [18] I. Akkurt dan A.M. El-Khayatt. "The effect of barite proportion on neutron and gamma-ray shielding". *Annals of Nuclear Energy* 51, 5-9, 2013.
- [19] Garber D.L. dan Kinsey R. R.. "Neutron Cross Sections, Vol. II, Curves." *Brookhaven National Laboratory report BNL*, 325, 1976.
- [20] David L. Hetrick. *Dynamics of Nuclear Reactors*. The University of Chicago Press, Chicago, 1971.
- [21] John R. Lamarsh. *Introduction to Nuclear Engineering*. Addison-Wesley, Massachusetts, 1983.
- [22] James J. Duderstadt dan Louis J. Hamilton. *Nuclear Reactor Analysis*. John Wiley & Sons, Inc., Michigan, 1976.
- [23] Alex F Bielajew. *Fundamentals of the Monte Carlo Method for neutral and charged particle transport*. Department of Nuclear Engineering and Radiological Sciences, The University of Michigan, 2001.
- [24] Darsono, Safirudin, dan M. Toifur. "Simulasi Desain Perisai MBE-Lateks Menggunakan MCNP5". *Jurnal Iptek Nuklir Ganendra Vol. 16 No.2*, 87-96, 2013.
- [25] Denise B. Pelowitz. *MCNPX User's Manual*. Dokumen teknis, Los Alamos National Laboratory, 2008.
- [26] Irhas. *Dosimetri Boron Neutron Capture Therapy pada Kanker Hati (Hepatocellular Carinoma) Menggunakan MCNP-Code dengan Sumber Neutron*



dari *Kolom Termal Reaktor Kartini*. Skripsi, Jurusan Teknik Fisika, Fakultas Teknik, Universitas Gadjah Mada, Yogyakarta, 2013.

- [27] Kepala Badan Pengawas Tenaga Nuklir Republik Indonesia. *Peraturan Kepala Badan Pengawas Tenaga Nuklir Nomor 4 Tahun 2013 Tentang Proteksi dan Keselamatan Radiasi Dalam Pemanfaatan Tenaga Nuklir*. Dokumen teknis, BAPETEN, Indonesia, 2013.
- [28] International Commision Radiation Protection. *Report of the task group on Reference Man, ICRP Publication 23*. Pergamon Press, Oxford, 1975.
- [29] Sabrina Stella. *Design of A Prompt Gamma Neutron Activation Analysis (PGNAA) System for Boron Neutron Capture Therapy (BNCT) using Monte Carlo Code*. Disertasi, University of Pavia, Pavia, 2011.
- [30] Ranti Warfi. *Optimasi Kolimator Kolom Termal untuk Fasilitas Uji In Vitro dan In Vivo BNCT di Reaktor Kartini Menggunakan Simulator MCNP-X*. Jurusan Teknik Fisika, Fakultas Teknik, Universitas Gadjah Mada, Yogyakarta, 2015.
- [31] Alibaba. *Stainless steel price per kg*. Diakses dari <http://www.alibaba.com/showroom/stainless-steel-per-kg.html>, 20 September 2015.
- [32] Indonetwork. *Paraffin wax price per kg*. Diakses dari <http://www.indonetwork.co.id/tradeoffers/15/paraffin-wax.html>, 20 September 2015.
- [33] Indonesian alibaba. *Barite for heavy concrete*. Diakses dari <http://indonesian.alibaba.com/product-gs/2015-jiaqi-barite-baso4-barite-forheavy-concrete-for-sale-60155507756.html?spm=a2700.7732609.35.1.179J5S>, 20 September 2015.
- [34] Indonesian alibaba. *Ultra high molecular weight polyethylene price*. Diakses dari <http://indonesian.alibaba.com/product-cheap-price-uhmwpe-ultra highmolecular-weight-polyethylene-plate.html>, 20 September 2015.