

DAFTAR PUSTAKA

- Arya, Atam. P., 1966, *Fundamental of Nuclear Physics*, West Virginia University, Boston
- Baldo, M. dan Burgio, F. G., 2016, The nuclear symmetry energy, *Progress in particle and nuclear physics* 91 (2016) 203-258.
- Baym, G., Bethe H.A. dan Pethick, C. J., 1971, Neutron star matter, *Nucl. Phys, A* 175, 221 – 271.
- Baym, G., Pethick, C. dan Sutherland, P., 1971, The Ground State of Matter at High Densities: Equation of State and Stellar Models, *Astro - ph. J* 170, 299 - 317.
- Becke, D. A. dan Johnson, R. E., A simple effective potential for exchange, *The Journal of Chemical Physics* 124, 221101 (2006); doi: 10.1063/1.2213970.
- Beiser, A., 2003, *Konsep Fisika Modern*, diterjemahkan oleh: The Houw Liong, Ph. D, Erlangga, Jakarta.
- Caplan, E. M. dan Horowitz, J. C., 2017, Astromaterial Science and Nuclear Pasta, Center for Exploration of Energy and Matter and Department of Physics, Indiana University, USA.
- Chamel, N. dan Haensel, P., 2008, *Physics of Neutron Star Crusts*.
- Demianski, M., 1985, *Relativistic Astrophysics*, Pergamon Press.
- Douchin, F. dan Haensel, P., 2000, Inner edge of neutron-star crust with SLy effective nucleon-nucleon interactions, *Physics Letters B* 485 2000 107–114.
- Dutra, M. dkk, 2013, Skyrme Interaction and Nuclear Matter Constraints, arXiv:1202.3902v2 [nucl-th] 29 May 2012.
- Glendenning, N.K., 2000, *Compact Stars : Nuclear Physics, Particle Physics, and General Relativity*, Second Edition, Springer, New York.
- Gandolfi, S., 2012, The equation of state of neutron star matter and the symmetry energy, 11th International Conference on Nucleus-Nucleus Collisions (NN2012), *Journal of Physics: Conference Series* 420 (2013) 012150.
- Gandolfi, S. dkk, 2013, The equation of state of neutron matter, symmetry energy, and neutron star structure, arXiv:1307.5815v1.
- Griffiths, J. D., 1995, *Introduction to quantum mechanics*, Prentice Hall, USA.
- Grill, F., Providência, C. dan Avancini, S. S., 2012, The neutron star inner crust and symmetry energy, arXiv:1203.4166v1.



Haensel, P., Potekhin, A.Y., dan Yakovlev, D. G., 2007, *Neutron Stars 1: Equation of State and Structure*, Astrophysics and Space Science Library, vol. 326, Springer, New York, U.S.A.

Hans, H. S., 2011, *Nuclear Physics Experiment and Theory*, New Academic Science, England.

Hashimoto, Masa-aki. dkk, 1984, Shape of Nuclei in the Crust of Neutron Star, *Progress of Theoretical Physics*, Vol. 71, No.2, February 1984.

Horowitz, J. C. dkk, 2016, Nuclear pasta and supernova neutrinos at late times, arXiv:1611.10226v1 [astro-ph.HE] 30 Nov 2016.

Iida, K. dan Oyamatsu, K., 2014, Symmetry energy, unstable nuclei and neutron star crusts, *Eur. Phys. J. A (2014)* 50: 42, DOI 10.1140/epja/i2014-14042-9.

Iida, K., Watanabe, G. dan Sato, K., 2001, Formation of Nuclear “Pasta” in Cold Neutron Star Matter, *Progress of Theoretical Physics*, Vol. 106, No. 3, September 2001.

Istiqomah, E. L., 2010, Suhu Kritis dan Celah Tenaga Superfluida Pada Inti Bintang Neutron Yang Mendingin, *Tesis*, Jurusan Fisika FMIPA UGM, Yogyakarta.

Krane, S. K., 1988, *Introductory Nuclear Physics*, JohnWiley and Sons, Inc., Kanada.

Kusminarto, 2011, *Esensi Fisika Modern*, Andi Publisher, Yogyakarta.

Landau, L., 1931, *On the Theory of Star*, *Physikalische Zeitschrift der Sowjetunion* Vol. 1, No. 2, 285-188.

Landau L. D. dan Lifshitz E. M., 1999, *The Classical Theory of Fields* (Oxford: Butterworth-Heinemann).

Lander, S. K., 2010, Equilibria And Oscillations Of Magnetised Neutron Stars, *Thesis*, University Of Southamton.

Lattimer, J. M. dan Prakash, M., 2004, The Physics of Neutron Star, Astro-ph 0405262v1.

Lattimer, J. M. dan Steiner, W. A., 2014, Constraints on the Symmetry Energy Using the Mass-Radius Relation of Neutron Stars, arXiv:1403.1186v1.

Meyerhof, Walter.E., 1967, *Elements of Nuclear Physics*, Stanford University, McGRAW-HILL Book Company, New York.

Newton, G. W. dkk, 2015, Constraints on the symmetry energy from observational probes of the neutron star crust, arXiv:1506.02207v1.

Nilsson, S. G., 1955, *Binding State of Individual Nucleons in Strongly Deformed Nuclei*, *Dan Mat Fys Medd* 29, No. 16.

- Pearson, J. dan Pike, S., 2007, *The Physics of Neutron Stars*, Second Year Theory Project Report, Manchester University.
- Pethick, J. C. dan Ravenhall, G. D., 1995, *Matter At Large Neutron Excess And The Physics Of Neutron-Star Crusts*, *Annu. Rev. Nucl. Part. Sci.* 1995. 45:429-84.
- Potekhin, A. Y., 2011, *The Physics Of Neutron Stars*, astro-ph. SR, 1235-1256.
- Prakash, M. dkk, 1988, Equation of State and the Maximum Mass of the Neutron Stars, *Phys. Rev. Lett.* 61, 22.
- Providencia, C. dkk, 2013, Imprint of the symmetry energy on the inner crust and strangeness content of neutron stars, arXiv:1307.1436v1.
- Psonis, P. G., Moustakidis, C. Ch., dan Massen, E. S., 2008, Nuclear symmetry energy effects on neutron stars properties, arXiv:nucl-th/0609052v2.
- Puri, K. R. dan Babbar, K. V., 1997, *Solid State Physics*, S.CHAND & COMPANY LTD, New Delhi.
- Ravenhall, D. G., Pethick, C. J., dan Wilson, J. R., 1983, "Structure of Matter below Nuclear Saturation Density", *Phys. Rev. Lett.*, 50, 2066–2069.
- Roca-Maza, X., dan Piekarewicz, J., 2008, Impact of the symmetry energy on the outer crust of nonaccreting neutron stars, *Phys. Rev. C* **78**, 025807.
- Schneider, S. A. dkk, 2013, Nuclear Pasta Formation, arXiv:1307.1678v1 [nucl-th] 5 Jul 2013.
- Schuetrumpf, B., 2013, Time-dependent hartree-fock approach to nuclear pasta "at finite temperature", *Phys. Rev. C* 87, 055805.
- Schuetrumpf, B. dkk, 2014, Nuclear Pasta Matter for Different Proton Fractions, arXiv:1407.4055v2 [nucl-th] 25 Sep 2014.
- Shapiro, S.L. dan Teukolsky, T.A., 1983, *Black Holes, White Dwarf, Neutron stars*, John Wiley & Sons Inc., New York.
- Sharma, K. B. dkk, 2015, Unified equation of state for neutron stars on a microscopic basis, arXiv:1506.00375v2.
- Sulistyani, E. T., 2015, Kajian tentang Rumus Massa Semi-Empiris Pada Bintang Neutron, *Laporan Penelitian*, Jurusan Fisika FMIPA UGM, Yogyakarta.
- Tsuruta, S. dan A.G.W. Cameron, 1965, Composition of matter in nuclear statistical equilibrium at high densities. *Can. J. Phys.*, 43, 2056-2077, doi:10.1139/p65-199.



Vidaña, I. dan Providência, C., 2010, Density dependence of the nuclear symmetry energy: a microscopic perspective.

Viñas, X. dkk, 2017, pasta-phase transitions in the inner crust of neutron stars, *Acta Physica Polonica B Proceedings Supplement*, Vol. 10(2017), No.1.

Wang, Ning., 2010, *Modification of mass formula by considering isospin effects*, Department of Physics, Guangxi Normal University, Guilin 541004, P. R. China., arXiv:1001.1493v1 [nucl-th] 10 Jan 2010.

Watanabe, G. dan Maruyama, T., 2012, Nuclear Pasta In Supernovae And Neutron Stars, arXiv: 1109.3511v2.

Yasrina, A., 2011, Nukleosintesis dan Evolusi Bintang, *Skripsi*, Jurusan Fisika FMIPA UGM, Yogyakarta.