

## DAFTAR PUSTAKA

- Abramowitz, M., and Stegun, I.A., 1964, *Handbook of Mathematical Functions*, Dover Publications, Inc., New York.
- Absor, M.U.A., and Abraha, K., 2007, Theoretical exposition of single-electron quantum wires semiconductor nanostructure, *Proc. On the Jogja International Physics Conference (JIPC)*, UGM, Yogyakarta, Indonesia.
- Absor, M.U.A., Umar, M.D., and Abraha, K., 2009a, Study on the transport properties of single electron transistor quantum dot using master equation approach, *Proc.on the International Conference on Science and Technology (ISSTEC) UII*, Yogyakarta, Indonesia.
- Absor, M.U.A., Umar, M.D., and Abraha, K., 2009b, Quantum size level structure of colloidal CdTe quantum dot nanocrystal: A multiband approach, *American Institute of Physics (AIP) Proc.* **1169** pp 77-86.
- Brandes, T., 2005, Coherent and collective quantum optical effect in mesoscopic system, *Physics Report* **408**, 315
- Brandt, N.B., Chudinov, S.M., and Ponomarev, Y.G., 1988, *Semimetals I: Graphite and its Compounds* (North-Holland (Amsterdam)).
- Castroneto, A.H., Guinea, F., Peres, N.M.R., Novoselov, K.S., and Geim, A.K., 2009, The electronic properties of graphene, *Rev.Mod.Phys.* **81** (1), 109.
- Chakraborty, T. and Apalkov, V.M., 2003, Quantum cascade transition in nanostructures, *Advance in Physics* **52** (5), 455
- Dali wang and Guojin Jin., 2009, Bound state of Dirac electron in graphene-based magnetic quantum dot, *Physics Letter A* **373**, 4082-4085
- De Martino, A., Dell'Anna, L., and Egger, R., 2007, Magnetic confinement of Massless Dirac Fermion in Graphene, *Phys. Rev. Lett.* **98**, 066802.
- Gao, X., Cui, Y., Levenson, R.M., Chung, L.W., and Nie, S., 2004, In vivo cancer targeting and imaging with semiconductor quantum dot, *Nature Biotechnology* **22**(8), 969
- Geim, A.K., and Novoselov, K.S., 2007, The rise of graphene, *Nature Materials* **6**, 183

- Hawagena, P. and Apolkov, V., 2009, Trapping of an electronic coupled quantum dot graphene, *Phys.Rev.B* **79**, 115418
- Kouwenhoven, L.P., Austing, D.G., and Tarucha, S., 2001, Few electron quantum dots, *Report Progress in Physics* **64**, 701
- Ketnelson, M.I., Novoselov, K.S., and Geim, A.K., 2006, Chiral tunneling and the Klein paradox in Graphene, *Nature Physics* **2**, 620
- Morozov, S.V., Novoselov, K. S., Katsnelson, M. I., Schedin, F., Elias, D. C., Jaszczak, J. A, and Geim, A. K. , 2008, Giant intrinsic carrier in graphene and its bilayer, *Phys.Rev.Lett.* **100**, 016602
- Muller, M., Schamalia, J., and Frtensz, L., 2009, Graphene: A nearly perfect fluid, *Phys.Rev.Lett.* **103**, 02530
- Nilsson, J., Castroneto, A.H., Guinea, F., and Peres, N.M.R., 2007, Electronic properties of bilayer and multilayer graphene, *arXiv:0712.3259v2*.
- Novoselov, K.S., Geim, A.K, Morozov, S.V., Jiang, D., Zhang, Y., Dubonos, S.V., Grigorieva, I.V., and Firsov, A.A., *Science* **306**, 666 (2004)
- Novoselov, K.S., Geim, A.K., Morozov, S.V., Jiang, D., Katsnelson, M.I., Grigorieva, I.V., Dubonos, S.V and Firsov, A.A., 2005, Two dimensional gas of masless Dirac fermion in graphene, *Nature* **438**, 197
- Peres, N.M.R., Castroneto, A.H., and Guinea, F., 2006, Dirac fermion confinement in graphene, *Phys.Rev.B* **73**, 241403
- Schnez, S., Ensslin, K., Sigrist, M., and Ihn, T., 2008, Analytical models for the energy spectrum of graphene quantum dot in perpendicular magnetic field, *Phys.Rev.B* **78**, 195427
- Silvetov, P.G and Efetov, K.B., 2007, Quantum dot in graphene, *Phys.Rev.Lett.* **98**, 016802
- Taghioskoui, M., 2009, Trend in graphene research, *Materials today* **12**, 10
- Tarucha, S., Austing, D.G., Honda, T., van der Hage, R.J., and Kouwenhoven, L.P., 1996, Shell filling and spin effect in few electron quantum dot, *Phys.Rev.Lett.* **77**(17), 3613
- Wallace, P.R., *Phys. Rev.* **71**, 622 (1947)
- Zhang Z.Z., Chang, K., and Peeters, F.M., 2008, Tuning of energy levels and optical



UNIVERSITAS  
GADJAH MADA

**Pemodelan sistem quantum wirea dan quantum dots dalam material graphene struktur nano menggunakan**

**pengungkungan medan magnetik tak homogen dan reduksi massa**

ABSOR, Moh. Adhib Uliil, Prof. Drs. Kamsul Abraha, Ph.D

Universitas Gadjah Mada, 2010 | Diunduh dari <http://etd.repository.ugm.ac.id/>

properties of graphene quantum dot, *Phys.Rev.B* 77, 235411.