

EE582: Nanoelectronics
Reading material

Electron Transport in Nanotubes:

1. G. Pennington and N. Goldsman, *Phys Rev. B* 68, 045426 (2003)
2. A Akturk, G. Pennington, N. Goldsman and A. Wickenden, *IEEE Tran. Nanotech.* Vol. 6, 467 (2007)
3. M.Z. Kauser, A Verma and P.P. Ruden, *Physica E* Vol. 34, 666 (2006)
4. G. Pennington, N. Goldsman, A Akturk, A. Wickenden, *Appl. Phys. Lett.* Vol 90, 062110 (2007).

Spintronics:

1. D.D. Awschalom and M.E. Flatte, "Challenges for semiconductor spintronics," *Nature Phys.*, Vol. 3, 153 (2007)
2. S.A. Wolf, A.Y. Chtchelkanova and D.M. Treger, "Spintronics: A retrospective and perspective," *IBM J. Res. & Dev.*, Vol. 50, 101 (2006)
3. S.A. Wolf, D.D. Awschalom, R.A. Burhrman, J.M. Daughton, S. von Molnar, M.L. Roukes, A.Y. Chtchelkanova and D.M. Treger, "Spintronics: A Spin-Based Electronics Vision for the Future," *Science*, Vol. 294, 1488 (2001).
4. I. Zutic, J. Fabian and S.C. Erwin, "Spin Injection and Detection in Silicon," *Phys. Rev. Lett.* Vol. 97, 026602 (2006)
5. B. Huang, D.J. Monsma and I. Appelbaum, "Experimental Realization of a silicon Spin field effect transistor," *Appl. Phys. Lett.* Vol. 91, 07250 (2007).