## REFERENCES

- [1] Bohrenkämper G., D. Reiermann, G. Höhne, U. Linger. "Technology Evolution of the Proven Gas Turbine Models V94.2 and V84.2 for New Units and Service Retrofits." http://www.energy.siemens.com/hq/pool/hq/energytopics/pdfs/en/gas-turbines-power-plants/2\_Technology\_Evolution.pdf, accessed April 26, 2010.
- [2] Brokowski, M.E. "Rankine Cycle with Regeneration."
   http://www.qrg.northwestern.edu/thermo/design-library/regen/regen.html, accessed March 8, 2010.
- [3] Callister, W.D. "Materials Science and Engineering: An Introduction, 7<sup>th</sup> edition." New York: Wiley Asia Student Edition, 2007.
- [4] "Cogeneration." http://www.energysolutionscenter.org/distgen/Tutorial/Cogeneration.htm, accessed March 22, 2010.
- [5] "Combustion Turbine." http://www.energysolutionscenter.org/distgen/Tutorial/CombTurbine.htm,

accessed April 5, 2010

- [6] "Countercurrent Exchange." http://en.wikipedia.org/wiki/Countercurrent\_exchange, accessed May 3, 2010
- [7] Halliday, D., R. Resnick, J. Walker. "Fundamentals of Physics, 7<sup>th</sup> edition." New Jersey: John Wiley & Sons, 2005.
- [8] Haykin, S., B. Van Veen. "Signal and System, 2<sup>nd</sup> edition." New Jersey: John Wiley & Sons, 2003.

- [9] "Heat Recovery Steam Generator HRSGs Engineering and Project Management Services" http://www.babcockpower.com/index.php?option=services&task=viewservice& coid=24&serid=21, accessed April 6, 2010
- [10] "Heat Transfer Knowledge and Engineering" http://www.engineersedge.com/heat\_transfer/heat\_transfer\_Table\_content.htm, accessed April 20, 2010.
- [11] "How Gas Turbine Power Plants Work."
  http://www.fossil.energy.gov/programs/powersystems/turbines/turbines\_howitw orks.html, accessed March 8, 2010.
- [12] Kuppan T., "Heat Exchanger Design Handbook." New York: Marcel Dekker, 2000.
- [13] "LMTD Application to Heat Exchanger" http://www.engineersedge.com/heat\_transfer/log\_tempdiff\_app\_heat\_exc.htm, accessed April 20, 2010.
- [14] Moran J., Shapiro N.M. "Fundamentals of Engineering Thermodynamics, 5<sup>th</sup> edition." London: John Wiley & Sons, 2006.
- [15] Nachtwey, P. "A Discrete Time Linear Model of the Heat Exchanger." http://www.controlguru.com/wp/p80.html, accessed April 7, 2010.
- [16] Nachtwey, P. "Step Test Data From the Heat Exchanger Process." Source: http://www.controlguru.com/wp/p45.html, accessed April 8, 2010.
- [17] Nessler, H., R. Preiss, P. Eisenkolb. MAB Anlagenbau Austria GmbH & CoKG.
   "Development in HRSG Technology." The 7<sup>th</sup> Annual Industrial & Power Gas Turbine O&M Conference, Birmingham, November 14-15, 2001.

- [18] Ogata, K., "Modern Control Engineering, 4<sup>th</sup> edition." New Jersey: Prentice Hall, 2002.
- [19] "Pipe Flow Calculation."
  http://www.pipeflowcalculations.com/heater/index.htm, accessed April 15, 2010.
- [20] "Pole-Zero Map" www.softintegration.com/chhtml/toolkit/control/pzmap.html, accessed June 29, 2010.
- [21] "Power at a Pace." Heufer, J., I. Püschmann.
   http://www.powergenworldwide.com/index/display/articledisplay/235384/articl
   es/power-engineering-international/volume-13/issue-8/features/gas-turbine-power-plants/power-at-a-pace.html, accessed June 23, 2010.
- [22] Rafferty, K.D., G. Culver. "Heat Exchangers." Geo-Heat Center Bulletin, Vol. 19, March, 1998, pp 1.
- [23] Ravi Kumar, N., K. Rama Krishna, A. V. Sita Rama Raju. "Thermodynamic Analysis of Heat Recovery Steam Generator in Combined Cycle Power Plant." Thermal Science International Scientific Journal, 2007, pp 143-156.

## [24] "Rankine Cycle with Regeneration."

http://www.qrg.northwestern.edu/thermo/design-library/regen/regen.html, accessed March 15, 2010.

- [25] "Shell and Tube Heat Exchanger Design."
   http://www.nationmaster.com/encyclopedia/Shell-and-tube-heat-exchanger,
   accessed June 25, 2010.
- [26] Siemens Gas Turbines over 100MW brochure, Siemens AG Energy Sector, 2008, p. 7

- [27] Silbey, Robert J., Alberty Robert A. "Physical Chemistry, 3<sup>rd</sup> edition." New Jersey: John Wiley & Sons, 2001.
- [28] Singhal, A.K., "Estimation of The Recoverable Heat Energy From The Engine Exhaust Gases."
- [29] "Single Cycle Gas Turbine Power Plant." http://www.hk-phy.org/energy/power/elect\_phy/flash/powerplant\_e.html, accessed March 15, 2010
- [30] "Single Shaft Combined Cycle Plant."
   www.energysolutionscenter.org/distgen/Tutorial/CombinedCycle.htm, accessed
   March 22, 2010
- [31] Stapelberg, R.F., "Handbook of Reliability, Availability, Maintainability and Safety in Engineering Design." London: Springer-Verlag, 2009.
- [32] Tavakoli, S and M. Tavakoli. "Optimal Tuning of PID Controller for First Order plus Time Delay Models Using Dimensional Analysis." The 4<sup>th</sup> International Conference on Control and Automation (ICCA '03), Montreal, June 10-12, 2003.

## [33] "Typical Fouling Factor."

http://www.engineeringpage.com/technology/thermal/fouling\_factors.html, accessed May 6, 2010.

[34] Yadav, J. P. and O. Singh. "Thermodynamic Analysis of Air Cooled Simple Gas and Steam Combined Cycle Plant." Journal of Institution of Engineers (India) – Mechanical Engineering, 2006, Vol. 86, pp. 217-222.