

7. **REFERENCES**

- A Johansson, "Are Telephone Exchanges Energy Efficient", proc. INTELEC, Paris, pp. 100-105, 1993.
- 2 GJ Delport, "The Energy Management Course: The Energy Policy", Centre for New Electricity Studies, Department of Electrical, Electronic and Computer Engineering, University of Pretoria, South Africa, 1997.
- 3 N Rabie, "Modelling HVAC In A Telecommunications Environment", ENE 780 Final Report, CNES, Department of Electrical, Electronic and Computer Engineering, University of Pretoria, South Africa, 2000.
- 4 AFC Sherratt, *Air Conditioning And Energy Conservation*, The Architectural Press, London, 1980.
- 5 International Energy Agency, "Key World Energy Statistics", IEA Report, Paris, p. 56, 1998.
- 6 LJ Grobler, *Simulation Of Regenerative Indirect Evaporative Coolers*, Masters Dissertation, Department of Engineering, University of Pretoria, South Africa, 1992.
- 7 Department of Minerals and Energy, South Africa, "Draft White Paper", http://www.polity.org.za/govdocs/white_papers/energy98.
- 8 CW Gellings and JH Chamberlain, *Demand-Side Management Planning*, Fairmont Press, Lilburn, USA, p. 2, 1993.
- 9 FG Fowler and HW Fowler, *The Oxford Dictionary*, 6th Edition, Oxford University Press, Oxford, UK, pp. 281 & 529, 1978.
- 10 A Thumann and DP Mehta, Handbook of Energy Engineering, 2nd Edition, The Fairmont Press, Lilburn, USA, 1991.



- 11 Telkom SA (Ltd), South Africa, "Telkom Annual Report 1998", http://www.telkom.co.za/reports/annual_report1998/review_of_the_chairman_and_acti ng_ceo.htm.
- 12 Telkom SA (Ltd), South Africa, "Telkom Annual Report 2000", http://www.telkom.co.za/reports/annual_report2000/index.htm.
- 13 H Mochi, K Tsutsui, M Nakao, Y Chiba, "Drastic Improvement Of Energy Consumption At NTT", IEEE, 0-7803-3507-4/96, pp. 744 748, 1996.
- 14 N Rabie, "Investigation Into Various Methods Of Climate Control In A Telecommunications Environment With Reference To Energy Management", EIX 788 Final Report, CNES, Department of Electrical, Electronic and Computer Engineering, University of Pretoria, p. 3, 2000.
- 15 M Rycroft, "Energy Management in Telecommunications Networks", Electron Journal, SAIEE, Vol. 17 No. 6, South Africa, pp. 34 – 35, 2000.
- 16 WC Turner, Energy Management Handbook, The Fairmont Press, Lilburn, USA, 1993.
- 17 J Parsons, "Reducing the Costs of Network Power & Cooling", IEEE, 0-7803-3996-7/97, pp. 277 284, 1997.
- 18 PW Balchin, "Cooling a Modern Network at Minimal Cost", IEEE, 0-7803-2750-0/95, pp. 243 – 150, 1995.
- 19 A Bengtsson, L Ahnmarker and J Akerlund, "A Three-Year Campaign for Saving Energy at Telia", IEEE, 0-7803-2750-0/95, pp. 191 195, 1995.
- 20 MK Herrlin, "Economic Benefits of Energy Savings Associated with: (1) Energy Efficient Telecommunications Equipment; and (2) Appropriate Environmental Controls", IEEE, 0-7803-3507-4/96, pp. 731 – 736, 1996.

- 21 N Rabie, "An Energy Management Plan For Telkom", ENB 780 Final Report, CNES, Department of Electrical, Electronic and Computer Engineering, University of Pretoria, South Africa, p. 11, 2000.
- 22 N Rabie and GJ Delport, "Energy Management in a Telecommunications Environment

 An Energy Account of Telkom's Buildings and Sites", SATNAC, Cape Town, South
 Africa, Paper included in the conference proceedings on CD, 2000.
- 23 LJ Grobler, *A New Holistic Approach To HVAC Retrofitting*, PhD, Faculty of Engineering, University of Pretoria, Pretoria, South Africa, 1995.
- 24 ASHRAE, 1991 ASHRAE Handbook: HVAC Applications, American Society of Heating, Refrigeration and Air-conditioning Engineers, Atlanta, USA, 1991.
- 25 ASHRAE, 1993 ASHRAE Handbook: Fundamentals, American Society of Heating, Refrigeration and Air-conditioning Engineers, Atlanta, USA, 1993.
- 26 HJ Sauer and RH Howell, Principles of Heating, Ventilating and Air Conditioning, American Society of Heating, Refrigeration and Air-conditioning Engineers, Atlanta, USA, 1992.
- 27 G Schweitzer and A Ebeling, *Basic Air Conditioning: Vol 1*, Hayden Book Company Inc, New Jersey, USA, 1971.
- 28 G Schweitzer and A Ebeling, *Basic Air Conditioning: Vol 2*, Hayden Book Company Inc, New Jersey, USA, 1971.
- 29 LM Rose, *The Application of Mathematical Modelling To Process Development and Design*, Applied Science Publishers Ltd, London, England, 1974.
- 30 GJ Delport, "The Energy Management Course: Process Modelling", Centre for New Electricity Studies, Department of Electrical, Electronic and Computer Engineering, University of Pretoria, South Africa, 1997.

- 31 JE Calmeyer, The Management Of Electricity Cost Within An Academic Institution, Masters Dissertation, Department of Electrical, Electronic and Computer Engineering, University of Pretoria, South Africa, 1999.
- 32 GJ Delport, "The Energy Management Course: Theory and Application of Tariffs", Centre for New Electricity Studies, Department of Electrical, Electronic and Computer Engineering, University of Pretoria, South Africa, 1997.
- 33 Telkom SA, "Regulatory & Government Relations", http://telkom.co.za/government_regulatory/index.shtml.
- 34 Centre for New Electricity studies, "Annual Report", CNES, University of Pretoria, South Africa, http://snesweb.ee.up.ac.za.
- 35 CJ Alberts, AB Badenhorst, BP Dawson, CJ Jooste, EF Lemmer, MW von Wielligh, and GJ Delport, "Electrical Energy Management Workbook", Centre for New Electricity Studies, Department of Electrical, Electronic and Computer Engineering, University of Pretoria, 1996.
- 36 CW Gellings and JH Chamberlin, *Demand-Side Management: Concepts and Methods*, The Fairmont Press, Lilburn, USA, 1988.
- 37 A Thumann, *Energy Conservation in Existing Buildings Deskbook*, The Fairmont Press, Lilburn, USA, 1992.
- 38 AS Hornby, "Oxford Advanced Learner's Dictionary 5th Edition", Oxford University Press, pp. 893 & 1179, 1995.
- 39 University of Pretoria, "Energy Policy of the University of Pretoria", http://snesweb.ee.up.ac.za.
- 40 AT&T, "Annual Report, 1999", http://www.att.com/ehs/annual_report/99/policy_vision_goals.html.

- KH Magnus, "Economic Benefits of Energy Savings Associated with: (1) Energy-Efficient Telecommunications Equipment; and (2) Appropriate Environmental Controls", IEEE, 0-7803-3507-4/96, pp. 731 – 736, 1996.
- 42 GJ Delport, The Energy Management Course: Energy Norms", Centre for New Electricity Studies, Department of Electrical, Electronic and Computer Engineering, University of Pretoria, South Africa, 1997.
- 43 LM Rose, *The Application of Mathematical Modelling to Process Development and Design*", Applied Science Publishers LTD, London, England, 1974.
- 44 BA Bayraktar, EA Cherniavsky, MA Laughton, and LE Ruff, *Energy Policy Planning*, Plenum Press, New York, USA, 1981.
- 45 GK Murray, "Energy and Cost Modelling of Water Reticulation Systems in Deep-Level Gold Mines", Masters Dissertation, Department of Electrical, Electronic and Computer Engineering, University of Pretoria, South Africa, 2000.
- 46 L Benjamin, *Energy Models and Studies*, North-Holland Publishing Company, Philadelphia, USA, 1983.
- 47 HD Young, University Physics: 8th Edition, Addison-Wesley Publishing Company, USA, 1992.
- 48 EG Pita, *Air Conditioning Principles and Systems: An Energy Approach*, John Wiley & Sons, New York, USA, 1981.
- 49 D Halliday and R Resnick, *Fundamentals of Physics*, John Wiley & Son Inc., New York, USA, 1974.
- 50 I Kavrakoglu, Mathematical Modelling of Energy Systems, Sijthoff & Noordhoff, Maryland, USA, 1981.