## **REFERENCES**

- A. Abu-Elanien, M.M.A. Salama. (2010). "Asset Management Techniques for Transformers", **Electrical Power System Research** 80(4): 456-464.
- A. C. Lemer. (2000). "Advancing Infrastructure Asset Management in the GASB 34 Age: Who's Driving the Train?" paper presented at APWA International Public Works Congress, Kentucky, September.
- A. J. Pansini. (2005). **Guide to Electrical Power Distribution Systems**: Marcel Dekker/CRC Press.
- A. Naderian, S. Cress, R. Piercy, F. Wang, J. Service. (2008). "An Approach to Determine the Health Index of Power Transformers", paper presented at **International Symposium on Electrical Insulation**, Vancouver, June.
- A. Rajakrom. (2009). "Novel Decision Support System for Underground Power Network Asset Management". Doctor of Philosophy, Chiang Mai University, Chiang Mai.
- A. White. (1998). "Replacement Versus Refurbishment: End of Life Options for Power Transformers", paper presented at IEE Colloquium on Transformer Life Management, UK, October.
- B. B. Malla. (2001). "Nepal Electricity Authority and Its Role in Regional Power Trade", (electronic). Available: http://www.sari-energy.org/publications/.
- B. Hochart. (1987). **Power Transformer Handbook**: Butterworth and Co. Ltd.
- Bharat Heavy Electricals Limited. (2003). Transformers: McGraw-Hill.
- B. J. Yu. (2001). "Economic Value Added and the Creation of Value", paper presented at The Fifth Russian-Korean International Symposium on Science and Technology, Russia, June/July.

- B. Nemeth, T. Benyo, A. Jager, G. Csepes, G. Woynarovich. (2008). "Complex Diagnostic Methods for Lifetime Extension of Power Transformers", paper presented at **International Symposium on Electrical Insulation**, Vancouver, June.
- B. Porebski, K. Przystalski, L. Nowak. (2011). **Building PHP Applications**: Wiley Publishing Inc.
- BSI. (2004). "PAS 55: Asset Management Part 1: Specification for the Optimized Management of Physical Infrastructure Asset" British Standards Institution.
- C. Darie, E. Balanescu. (2008). **Beginning PHP and MySQL E-Commerce**: Apress.
- C. E. Ebeling. (1997). **An Introduction to Reliability and Maintainability Engineering**: McGraw-Hill.
- CIGRE. (2002). "Guidelines for Life Management Techniques for Power Transformers"

  Draft Final Report Rev. 2: CIGRE Working Group 12.18 Life Management of Transformers.
- C. L. Fan, M.C. Tsay, S.K. Peng. (2011). "Asset Management Strategies of Power Transformer", (Online) http://www.docstoc/docs/14730806/ (Accessed 2011, November).
- C. Summereder, M. Muhr, B. Körbler. (2003). "Life Time Management of Power Transformers", e & i Elektrotechnik and Informationstechnik 120(12): 420-423.
- C. Tseng, C. Liou. (2006). "Valuation of R&D and Patent: An Economic Value Added Perspective". paper presented at PICMET Conference on Technology Management for the Global Future, Turkey, July.
- D. Braun, A. Guerig. (1994). "Life Management for Generator Circuit-Breakers", paper presented at **CIGRE**. Paris, August/September.
- Department of Transportation. (1999). "Asset Management Primer". Federal Highway Administration, Office of Asset Management, USA.
- D. F. Warne. (2005). Newnes Electrical Power Engineer's Handbook: Elsevier.

- D. Gan, E. Litvinov. (2002). "A Lost Opportunity Cost Model for Energy and Reserve Co-Optimization", paper presented at IEEE Power Engineering Society Summer Meeting, Chicago, July.
- D. G. Woodward. (1997). "Life Cycle Costing-Theory, Information Acquisition and Application", **International Journal of Project Management** 15(6): 335-344.
- D. He, S. E. Chick, C. Chen. (2007). "Opportunity Cost and OCBA Selection Procedures in Ordinal Optimization for a Fixed Number of Alternative Systems" **IEEE Transaction on System, Man and Cybernetics** 37(5): 951-961.
- D. J. Woodcock. (2000). "Condition Appraisals of Power Transformers", paper presented at **CINERGY**. Indiana.
- D.M. Allan. (2005). "Asset Management Challenges in Ageing Power Systems".
  Paper presented at International Symposium on Electrical Insulating
  Materials, Japan, June.
- G. Anders, S. Otal, T. Hjartarson. (2006). "Deriving Asset Probabilities of Failure: Effect of Condition and Maintenance Levels", paper presented at IEEE Power Engineering Society General Meetings, Montreal, June.
- G.B. Shelly, T.J. Cashman, H. J. Rosenblatt. (2006). **Systems Analysis and Design.** USA, Thomson Course Technology.
- G. Balzer, W. Degen, K. Laskowski, M. Halfmann, T. Hartkopf, C. Neumann. (2004). "Strategies for Optimizing the Use of Substation Assets", On behalf of CIGRE Work Group B3-101: Substations, Paris, August.
- G. Booch, J.E. Rumbaugh and L. Jacobson. (1999). **The Unified Modelling**Language User Guide. Reading, MA: Addison Wesley.
- G. J. Anders, J. Endrenyi. (2005). "A Probabilistic Approach to Life Cycle Management", paper presented at **IEEE Power Tech**, Russia, June.
- Grid Operation Department. (2006) "Tender Document": Nepal Electricity Authority.
- Grid Operation Department. (2008). "Substation Planning Document". Nepal Electricity Authority.

- G. Schreiber, H. Akkermans, A. Anjewierden, R.de Hoog, N.Shadbolt, W. V. Velde and B.Wielinga. (2000). Knowledge Engineering and Management: The CommonKADS Methodology: The MIT Press.
- G. Swift, T. Molinski. (1997). "Power Transformer Life-Cycle Cost Reduction", In Electricity Today (Canadian Electricity Forum).
- H. P. Barringer. (2003). "A Life Cycle Cost Summary", paper presented at **International Conference of Maintenance Societies**. Australia, May.
- H. Picard, J. Verstraten, M. Hakkens, C. Bouwmeester. (2007). "Economic Decision Model for End of Life Management of Distribution Switchgear", paper presented at 19<sup>th</sup> International Conference on Electricity Distribution. Vienna, May.
- I. E. Davidson. (2005) "Utility Asset Management in the Electrical Power Distribution Sector", paper presented at IEEE/PES Inaugural Conference and Exposition. Africa, July.
- IEEE Std. (1991). "IEEE Guide for Failure Investigation, Documentation and Analysis for Power Transformer and Shunt Reactors"
- IEEE Std. (1995). "IEEE Standard 657.91-1995: Guide for Loading Mineral Oil Immersed Transformer".
- IEEE Std. (2007). "IEEE Guide for Installation and Maintenance of Liquid Immersed Power Transformer", **IEEE Power Engineering Society**.
- I. Nonaka, H. Takeuchi. (1995). **The Knowledge Creating Company**. Oxford University Press, New York.
- I. Sommerville. (2007). **Software Engineering.** Addison-Wesley, USA.
- ISO14040:2006. (2006). "Environmental Management-Life Cycle Assessment-Principles and Framework".
- I. Wangensteen, E. Dahl. (1990). "An Investigation of Distribution Costs by Means of Regression Analysis", IEEE Transactions on Power Delivery 5(1): 521-526.

- J. Angele, D. Fensel, D. Landes and R. Studer. (1998). "Developing Knowledge Based Systems with MIKE", Journal of Automated Software Engineering 5(4): 389-418.
- J. C. M. Lucio, J. L. T. Nunez, R. C. G. Teive. (2009). "Asset Management into Practice: A Case Study of a Brazilian Electrical Energy Utility", paper presented at 15<sup>th</sup> International Conference on Intelligent System Applications to Power Systems, Brazil, November.
- J. H. Harlow. (2007). Electric Power Transformer Engineering: CRC Press, USA.
- J. J. Smith, B. Quak, E. Gulski. (2006). "Integral Decision Support for Asset Management of Electrical Infrastructures", paper presented at IEEE International Conference on Systems, Man and Cybernetics. Taiwan, October.
- J. L. Goudie, W. J. Chatterton. (2002). "Environmental and Life Cycle Considerations for Distribution and Small Power Transformer Selection and Specification", paper presented at International Symposium on Electrical Insulation. USA.
- J. L. Grant. (2003). **Foundations of Economic Value Added:** (electronic). John Wiley & Sons, New Jersey.
- J. Ostergaard, A.N. Jensen. (2001). "Can We Delay the Replacement of This Component?- an Asset Management Approach to Question", paper presented at 16<sup>th</sup> International Conference and Exhibition on Electricity Distribution (CIRED 2001). Amsterdam, June.
- J.P. Delhaise, M. Deuse, A. Marien, R. Steyaert. (1993). "Convergences and Divergences in Distribution Investment between Industrialized and Developing Countries", paper presented at 12<sup>th</sup> International Conference on Electricity Distribution, Brussels, May.
- J. Palola, M. Hyvarinen, P. Haveri, M. Lehtonen. (2006). "Investment Portfolio Tool Specification for an Electric Network Asset Management", paper presented at 9<sup>th</sup> International Conference on Probabilistic Methods Applied to Power System. Sweden, June.

- J. Q. Feng, J.S. Smith, Q.H. Wu, J. Fitch. (2005). "Condition Assessment of Power System Apparatuses Using Ontology Systems", paper presented at IEEE/PES Transmission and Distribution Conference & Exhibition. China, August.
- J. Schneider, A. J. Gaul, C. Neumann, J. Hogräfer, W. Wellbow, M. Schwan, A. Schnettler. (2006). "Asset Management Techniques", International Journal of Electrical Power and Energy Systems 28(9): 643-654.
- J. Sloman, K. Norris. (1999). **Economics:** Prentice-Hall, Australia.
- J. Woodhouse. (2001). "Asset Management", The Woodhouse Partnership Ltd. (electronic). http://www.twpl.co.uk/.
- J. Yin, Z. Yang. (2008). "A Study on the Product Profitability Model Based on Activity-Based Costing and Economic Value Added", paper presented at 4<sup>th</sup> International Conference on Wireless Communications, Networking and Mobile Computing, Nanjing, October.
- K. Afshar, M. Ehsan, M. Fotuhi-Firuzabad, N. Amjady. (2008). "A Method for Reserve Clearing in Disaggregated Considering Lost Opportunity Cost", Electric Power Systems Research 78(4): 527-538.
- K. Khankasikam. (2010). "Knowledge Capture for Thai Word Segmentation by Using CommonKADS", paper presented at 2<sup>nd</sup> International Conference on Computer and Automation Engineering. Singapore, February.
- K. Morton. (1999). "Asset Management in the Electricity Supply Industry", Power Engineering Journal 13(5): 233-240.
- L. Blank, A. Tarquin. (2002). Engineering Economy: McGraw Hill, New York.
- L.C. Leung, S.K. Khator. (1995). "Transformer Procurement and Relocation at a Large Electric Utility: A Mixed 0-1 Linear Programming Model", IEEE Transaction on Power System 10(2): 957-963.
- LCA. (2004). "Life Cycle Assessment Methods for Buildings", (electronic). Available: www.annex31.org.L. Welling, L. Thomson. (2009). PHP and MySQL Web Development: Addison-Wesley, New Jersey.

- L.M. Geldenhuis. (2005). "Power Transformer Life Management", paper presented at 18<sup>th</sup> International Conference on Electricity Distribution, Turin, June.
- M. Arshad, S.M. Islam, A. Khaliq. (2004a). "Power Transformer Aging and Life Extension", paper presented at 8<sup>th</sup> International Conference on Probabilistic Methods Applied to Power Systems. Iowa, September.
- M. Arshad, S.M. Islam, A. Khaliq. (2004b) "Power Transformer Asset Management", paper presented at **International Conference on Power System Technology**. Singapore, November.
- M. Arshad, S.M. Islam. (2006). "A Novel Fuzzy Logic Technique for Power Transformer Asset Management", paper presented at **IEEE Industry Applications Conference**. USA, October.
- M. Chow, H. Tram. (1997). "Methodology of Urban Redevelopment Considerations in Spatial Load Forecasting", **IEEE Transaction on Power System** 12(2): 996-1001.
- M. Hinow, M. Waldron, L. Muller. (2008). "Substation Life Cycle Cost Management Supported by Stochastic Optimization Algorithms", On behalf of CIGRE Work Group B3-103: Paris, August.
- MOKA. (2011). "MOKA Home Page", (Online) http://web1-eng.conventry.ac.uk/moka/ (Accessed 2011, November).
- M. R. Hodkiewicz, J. Coetzee, R. A. Dwight, J. M. Sharp. (2006). "The Importance of Knowledge Management to the Asset Management Process", BusinessBriefing: Oil and Gas Processing Reviews: 43-45.
- M. R. Kafle. (2007). "Electric Power in Nepal: History, Experience and Possibilities", paper presented at IEEE Conference on the History of Electric Power, Kathmandu, August.
- M.S. Abdullah, I. Benest, A. Evans and C. Kimble. (2002). "Knowledge Modelling Techniques for Developing Knowledge Management Systems", paper presented at 3<sup>rd</sup> European Conference on Knowledge Management. Ireland, September.

- M.S. Abdullah, A. Evans, I. Benest, R. Paige and C. Kimble. (2004). "Modeling Knowledge Based Systems Using the Executable Modelling Framework (XMF)", paper presented at IEEE Conference on Cybernetics and Intelligent Systems. Singapore, December.
- M. S. Bowman. (2003). **Applied Economics Analysis for Technologists, Engineers** and Managers. Prentice Hall, New Jersey.
- M. Schwn, K-H. Weck, M. Roth. (2004). "Assessing the Impact of Maintenance Strategies on Supply Reliability in Asset Management Methods". Paper presented at 40<sup>th</sup> CIGRE Session Paper C1-108, Paris, August.M. Shahidehpour, R. Ferrero
- M. Schwn, K-H. Weck, M. Roth. (2005). "Time Management for Assets:

  Chronological Strategies for Power System Asset Management", **IEEE Power & Energy Magazine** 3(3): 32-38.
- MSP. (2011) "Microsoft Office Share Point Server", (Online) http://office.microsoft.com/en-us/sharepointserver/ (Accessed 2011, November).
- M. Wang, A. J. Vandermaar, K.D. Srivastava. (2002). "Review of Condition Assessment of Power Transformer in Service", IEEE Electrical Insulation Magazine 18(2): 12-25.
- NEA. (2004). "Annex-11: Transmission Planning Study": Nepal Electricity Authority.
- NEA. (2007a). "Demand Forecasting", Nepal Electricity Authority.
- NEA. (2007b). "Fiscal Year 2006/2007: A Year in Review, Nepal Electricity Authority". Kathmandu: Nepal Electricity Authority.
- NEA. (2008). "Fiscal Year 2007/2008: A Year in Review, Nepal Electricity Authority". Kathmandu: Nepal Electricity Authority.
- NEA. (2011). "Fiscal Year 2010/2011: A Year in Review, Nepal Electricity Authority". Kathmandu: Nepal Electricity Authority.
- N. S. Mutawah, N. Rego. (2011). "Asset Management Plan of Transformer and Factors Affecting the Decision on Procurement of Spare Transformer", (Online) http://www.docstoc.com/docs/ (Accessed 2011, November).

- N. Shadbolt, N. Milton. (1999). "From Knowledge Engineering to Knowledge Management", **British Journal of Management** 10(4): 309-322.
- OC. (2011). "Consideration of Opportunity Costs Over Time". (Online) http://www.pjm.org/(Accessed 2011, November).
- P. J. Pillitteri. (2006). "Back to Transformer Basics-Economic Diagnostic Maintenance".

  Proceedings of the IEEE SoutheastCon, USA, March/April.
- Power<sup>CO</sup>. (2002). "Information Disclosure Asset Management Plan Electricity Network 2003-2012".
- P. Sureephong. (2009). "Characterization of the Information and Knowledge Exchange within the Enterprise Networks: A Knowledge Management System for SME's Cluster for a Handicraft Cluster Case in Thailand". Doctor of Philosophy, Chiang Mai University, Chiang Mai.
- P. Williams, G. Strbac. (2001). "Costing and Pricing of Electricity Distribution Services", **Power Engineering Journal** 15(3): 125-136.
- Q. Xil, Y. Liu, Y. Li, F. Lv. (2008). "Research on Failure Risk Assessment and Maintenance Tactics of Transformer Based on the Extension Engineering Method and IAHP", paper presented at International Conference on High Voltage Engineering and Application. China, November.
- R. E. Brown, B.G. Humphrey. (2005). "Asset Management for Transmission and Distribution", **IEEE Power and Energy Magazine** 3(3): 39-45.
- R. E. Brown, J. H. Spare. (2004). "Asset Management, Risk, and Distribution System Planning", paper presented at **IEEE/PES Power Systems Conference and Exposition**. USA, October.
- R. Home, T. Grant and K. Verghese. (2009). "Life Cycle Assessment Principles, Practice and Prospects", (electronic). CSIRO. Available: http://www.publish.csiro.au.
- R. Houbaer, K. Gray. (2000). "Power Transformer Asset Management", paper presented at APWA International Public Works Congress, Kentucky, September.

- R. Schwarz, M. Muhr. (2008). "Diagnostic Methods for Transformer", paper presented at International Conference on Condition Monitoring and Diagnosis, China, April.
- S.E. Chick, K. Inoue. (2001). "New Two-Stage and Sequential Procedures for Selecting the best Simulated System", Operational Research 49(5): 732-743.
- S. G. Menon, B.B. V.R. Rao,. (1986). "Planning of Distribution Systems in Developing Countries", IEE Proceedings Generation, Transmission and Distribution. 133(7): 384-388.
- S. Preston, C. Chapman. (2005). "Knowledge Acquisition for Knowledge Based Engineering Systems", **International Journal of Information Technology** and Management 4(1): 1-11
- S.S. Bhandari, T. Chandarasupsang. (2009). "Alternative Life Cycle Assessment of Power Transformer", paper presented at 3<sup>rd</sup> International Conference on SKIMA-09, Morocco, October.
- S. Stoft. (2002). **Power System Economics: Designing Market for Electricity**. John Wiley & Sons, New York.
- S. Tenbohlen, T. Stirl, M. Stach. (2001). "Assessment of Overload Capacity of Power Transformers by on-Line Monitoring Systems", paper presented at **IEEE Power Engineering Society Winter Meeting**, Ohio, January.
- Summary Report. (2006). "International Conference on Large Power Transformers-Modern Trends in Application, Installation, Operation & Maintenance".

  India.
- T. A. Short. (2006). **Electric Power Distribution Equipment and Systems**: CRC Press.
- T.H. Davenport, L. Prusak. (1998). Working Knowledge: How Organizations

  Manage What They Know, Harvard Business School Press, USA.
- T. Hjartarson, I. Khan, R. M. Godfrey. (2005). "Health Indices for Distribution Asset Condition Assessment", paper presented at **Distributech Conference**. USA, January.

- T. Kawamura, M. Ichikawa, N. Hosokawa, N. Amano, H. Sampei. (2004). "Site Maintenance Operations on Oil-Immersed Transformers and the State of Renewal for Low-Cost Operations in Japan", On behalf of CIGRE Working Group A2-209, Paris, August.
- W. E. Featheringill. (1983). "Power Transformer Loading", **IEEE Transactions on Industry Applications** 19(1): 21-27.
- W. H. Bartley. (2002). "Life Cycle Management of Utility Transformer Assets", paper presented at Breakthrough Asset Management for the Restructured Power Industry. Utah, October.
- W. J. Lee, C.H. Lin, L.D. Swift. (2001). "Wheeling Charge under a Deregulated Environment", IEEE Transactions on Industry Applications 37(1): 178-183.
- W. Li, E. Vaahedi, P. Choudhury. (2006). "Power System Equipment Aging", **IEEE Power and Energy Magazine** 4(3): 52-58.
- Y. Hasegawa, T. Kobayashi, H. Okubo, Y. Oue, K. Uehara. (2004). "Optimization of Substation Assets by Reviewing Dynamic Loading Criteria": On behalf of CIGRE Work Group B3-2: Substations, Paris, August.
- Y. Oue, Y. Hasegawa, T. Kobayashi. (2002). "Life Management of Transformers in Japan-Japanese Practices of Maintenance and Refurbishment", paper presented at IEEE/PES Transmission & Distribution Conference and Exhibition. Japan, October.
- Y. Tong, C. Lu, X. Cheng. (2009). "An Empirical Study on the Value Relevance of Economic Value Added in Logistics", paper presented at International Conference on Computational Intelligence and Software Engineering, Beijing, December.
- Y. Tong, Y. Yao, X. Xiong. (2010). "Performance Evaluation of Logistics Enterprises Based on Economic Value Added and Balanced Scorecard", paper presented at International Conference on Logistics Systems and Intelligent Management, Beijing, January.

Z. Lu, A. Liebman, Z. Y. Dong. (2006). "Power Generation Investment Opportunities Evaluation: A Comparison between Net Present Value and Real Options Approach", paper presented at IEEE Power Engineering Society General Meetings, Montreal, June.



ลิบสิทธิ์มหาวิทยาลัยเชียงใหม่ Copyright<sup>©</sup> by Chiang Mai University All rights reserved