References

- ABB Automation Inc. (2001). OptimizeIT Dynamic Solutions. Wicklifee, USA: ABB Inc.
- Abu Dahbi Council of Economic Development. (2016). *Abu Dhabi Council of Economic Development*. Retrieved from Official Portal of UAE Government: www.government.ae
- Achebe, C., Neneke, U. and Anisiji, O. (2007). *Analysis of Oil Pipeline Failure in in Niger Delta Area of Nigeria 1999-2005*. University of Port Harcourt, Global Research Publishing. Niger: Journal of Innovative Research in Engineering and Science Vol 2.
- ADMA production annual report. (2014, Jan 1). Integer Porgramming Model for short term production forecast of Effective Capacity. *Automated Effective Capacity*, 35. Abu Dhabi, UAE: Company Case.
- Alberta Energy Regulator. (2016, March 31). Directive -017 Measurement Requirements for Oil and Gas Operations. *Measurement Requirements for Oil and Gas Operations*. Calgary, Alberta, Canada: Alberta Energy Regulator.
- Alimonti, C., Sapienza, L. and Falcone, G. (2002). *Knowledge Discovery in Database Fuzzy Logic towards adhoc Well Monitoring and Diagnosis*. University of Rome. Rome: SPE 7707.
- Alkhatib, F. (1996). Lift Curve Automation. SPE 36236 Society Of Petroleum Engineers Annul Conference (p. 9). Abu Dhabi: SPE.
- Amos, H.C., Jacob Bernedixen, J., and Syberfeldt A. (2010, August 19). *A comparative study of production control mechanisms using simulation-based optimization*. University of Skovde, Virtual Systems Research Centre . Skovde, Sweden: International Journal of Production Research.
- Aronofsky J., Williams A. (1962, July 1). The use of Linear Programming & mathematical models in underground oil production. *Management Science, Vol 8*, p. 14.

- Arya, L. and Koshti, A. (2009). *Capacity Planning Using Monte Carlo Simulation and Neural Network*. Icfai University. Indore: Icfai University Press, Journal of E&E Engineering.
- Barber, A., Shippen, M., Barua, S., Hernanadez, A. and Montra, S. (2008). *Optimizing Production from.* Schlumberger. Houston: Oilfield Review.
- Bieker, H., Slupphaug, O. and Johansen, T. (2006). *Real Time Production Optimization of Offshore Oil and Gas Production Systems*. Research Council of Norway, ABB & NTNU. Amsterdam: SPE 99446 Intelligent Energy Conference.
- Bigliani, R. (2013). *Reducing risks in oil and gas operations*. EMC. Framingham: IDC Energy Insight.
- Bittencourt, A. and Horne, R. (1997). *Reservoir Development and Design Optimization*. Society of Petroleum Engineers. San Antonio: SPE 38895-MS.
- Bonavita, N., Birkemoe, E., Slupphaug, O. and Storkaa, E. (2008). Operational Performance excellence through production optimization in upstream industry. *10th Mediterranean Petroleum Conference* (p. 11). Tripoli: 2007. International Petroleum Technology Conference.
- Burchel, S. (2014). Subsea Simulation Model to Enhance Production through Maintenance & Reliability RAM. British Petroleum. Sunbury: Angola Inhouse Project.
- Camponogara, E. and Nakashima, P. (2006). *Optimization gas lift of oil wells piecewise linear formulation comp analysis*. Universidade Federal de Santa Catarina. Florianopolis: IIE Transactions Vol 38.
- Canada Regulations. (2011). *Measurement Guidelines*. Offshore Petroleum Board. Nova Scotia: Newfoundland and Labrador and Nova Scotia Offshore Areas.
- Charle, V., Ansari, I.I. and Khalid, M.M. (2009). *Multi-Objective Stochastic Linear Programming with General form of Distributions*. Catholic University of Peru. Aligarh: Department of Statistics and Operations Research, A.M.U., Aligarh, India.
- Chowdary, S. (2016). Optimization and Business Improvement Studies in Upstream Oil and Gas Industry. New Jersey: John Wiley & Sons Inc.

- Clay, M. (1988). An Approach to Real-Time Optimization (RTO) of the Central Gas Facility at the Prudhoe Bay Field. *SPE Annual Confernec* (p. 6). New Orleans: SPE 49123, New Orleans, U.S.A.
- Codasa, A., Campos, S., Camponogarab, E., Gunneruda, V. and Sunjergae, S. (2012). *Integrated production optimization of oil fields with pressure and routing*. Norwegian University of Science and Technology, Department of Engineering Cybernetics. Trondheim: Computers and Chemical Engineering 46 (2012) 178–189.
- Cooks, R. M. (2014). Purdue, USA, IPC Patent No. Methods of Analyzing Crude Oil US20150309001 A1 -.
- Cramer, R., Scotanus, D., Ibrahim, K. and Colbeck, N. (2011). Improving Allocation and Hydrocarbon Accounting Accuracy Using New Techniques. *SPE 125178 Annual Technical Conference and Exhibition* (p. 8). New Orleans: Society of Petroleum Engineers.
- Cuacenetl, R. (2008). *New Life for Old Field with Multiple Simulators*. PEMEX Mexico. Veracruse: Schlumberger.
- Dawe, R. (2000). *Modern Petroleum Technology*. Institute of Petroleum. Chichester: John Wiley & Son Limited.
- Dawe, R.A. (2001). Production Engineering. In *Medern Petroleum Technology Volume 1 Upstream* (p. 446). New York: John Wiley & Sons Ltd.
- Dawson, R. and Fuller, D. (1999). *A mixed integer nonlinear program for oilfield production planning*. University of Waterloo. Waterloo: Infromation Systems and Operations Reserach.
- Deruyck, B., Joseph, J. and Ehlig Economides, C. (1992). *Well Testing Design and Analysis*. London: Oilfiels Review.
- Diks, G.H. and Vrugt, J. (2010). Comparison of Point Forecast Accuracy of Model Averaging Methods in Hydrologic Applications. University of Amsterdam & Center of Nonlinera Studies, Stochastic Environmental Research & Risk Assessment. Amsterdam, Los Alamos: Springer Science & Business Media B.V.

- Dmour, H. N. (2013). *Analysis of well production by NODAL technique*. King Saud University. Riyadh: Petroleum Science & Technology Journal Taylor & Francis Ltd.
- DNVGL RAM Discrete Simulator. (2016). *Discrete Event Simulator Reliability Availability and Maintenance (RAM)*. (DNVGL) Retrieved 2016, from https://www.dnvgl.com/services/ram-analysis-for-upstream-oil-and-gas-maros-1152.
- Durrer, E. and Slater, G. (1977). *Optimization of natural gas production*. Pennsylvania State University. New York: Management Science, Vol 24.
- Dzubur, L. and Langvik, A. (2012). *Optimization of Oil Production Applied to the Marlim Field*. Norwegian University of Science and Technology. Tronheim: NUST.
- Fang, W., Lo, K. (1996). A generalized well-management scheme for reservoir simulation. ARCO Alaska. Anchorage: Societyof Petroleum Engineers Resrvoir Engineering. doi:SPE-29124-PA
- Fattah, K.A. (2006). *Predicting production performance using a simplified model*. University of Riyadh. Riyadh: Oil world Vol. 227 Issue 4,.
- Garcia, A. (2008). Production Decline Analysis. Montreal: Mckee University.
- Gjesdal, A., Abro, E. and Midttveit, O. (1988). Production Allocation of Tomorrow (MPFM & test Separators). SPE Bergen Seminar 23 (p. 14). Bergen: STAT Oil.
- Goh, K., Moncur, C., Overschee, P. and Briers, J. (2007). *Production Surveillance And Optimization With Data Driven Models*. Dubai: International Petroleum Technology Conference.
- Goovaerts, P. (1996). *Stochastic Simulation of Categorical Variables*. University Catholique de Louvain. Louvain-La-Neuve: Mathematical Geology, Vol, 28, No. 7, 1996.
- Haavardsson, N. F. (2008). *Hydrocarbon Production Optimization in Multi-Reservoir Fields Tools for Enhanced Value Chain Analysis*. University of Oslo, Faculty of Mathematics and Natural Sciences. Oslo: UO.

- Haavardsson, N. F., Huseby, A. B. and Holden, L. (2008). A Parametric Class of Production Strategies for multi-Reservoir Production Optimization. Oslo: Dept. of Math. University of Oslo Statistical Research Report No. 8 ISSN 0806–3842.
- Hess, W. and Immerman, N. (2013). *Oil and Gas Dynamic Optimization Problem*. University of Massachusetts UoM. Boston: Course work at UoM.
- Hillier, F. and Lieberman, G. (1975). *Operations Research*. University of Ohio Course Material. San Francisco: Holden Day Incorporation.
- Huppler, J. (1974). *Scheduling Gas Field Production for Maximum Profit*. SPE. Houston: SPE-4039-Society of Petroleum Engineers Journal.
- Intelligent Solutions, Inc. (2011). AI-Based Reservoir Models An Alternative to Traditionall Reservoir Simulation. Morgantown, West Virgenia USA: Intelligent Solutions, Inc. Retrieved from Intelligent Solutions, Inc.
- Jazayeri, T. and Yahyai, A. (2002). *Short Term Forecasting of non-OPEC supply*. Organization of Petroleum Exporting Countries (OPEC). Vienna: OPEC.
- Jeffry, S. (2007). *Allocations Measurement*. Science & Technology University Library, 82nd International School of Hydrocarbons. Oklahoma: Leibniz Information Centre.
- Jensen, P.A. (2004). *Operations Research Methods and Models*. (University of Texas)

 Retrieved from https://www.me.utexas.edu/~jensen/ORMM/index.html:

 https://www.me.utexas.edu/~jensen/ORMM/models/
- Kaufman, R., Ahmed, A. and Hempkins, W. (1997). A New Technique for the Analysis of Commingled Oils and Its Application to Production Allocation Calculations. *AAPG, Indonesian Petroleum Association* (p. 22). Jakarta: American Association of Petroleum Geologists.
- Kaviani, D., Valko, P. and Jensen, J. (2011). *Analysis of Injection and Production Data for Open and Large Reservoir*. University of Calgary. Calgary: Energies Journal (MDPI Publishing).
- Khor, C. and Kamel, A. (1996). *Production Systems Optimization Methods for Petroleum Fields*. University of Waterloo. Inderscience Enterprises Ltd.

- Kosmidis, V., Perkins, J. and Pistikopoulos, E. (2004). *Optimization of Well Oil Rate Allocations in Petroleum Fields*. 2004 American Chemical Society. London: Industrial and Engineering Chemistry Research Vol 43.
- Kumar, S., Dantotiya, R. and Kumar, U. (2008). *Inspection Frequency Optimization Flow-lines offshore platforms*. Lulea University of Technology, World Scientific Publishing Company. Lulea: Intern' Journal of Reliability, Quality Eng Vol.1.15.
- Kurihara, K., Nagai, M., Nishiuchi, N. and Masuda, K. (2008). *Branching Probability Planning of Stochastic Network Genetic Algorithm*. Kanagawa University. Tokyo: Electrical Engineering in Japan, Vol. 162, No. 4.
- Lawrence, P. (2011). Concrete Measures and Key Points for the Allocation Metering of Natural Gas and Condensate. PetroChina & Cameron Measurement Systems Inc. Houston: Chemical Engineering of Oil & Gas.
- Lee, A., Arnofosky, J. (1958). *A Linear Programming Model for Scheduling Crude Oil Production*. Ulaanbaatar: SPE-862 Journal of Petroleum Technology.
- Lo, C.W. and Holden, W. (1992). Use of Management Schemes for Rate Forecasts. *SPE Western Regional meeting* (p. 14). Bakersfield: SPE 24071.
- Mach, J., Proano, E. and Brown, K. (1979). *Nodal Approach for Applying Systems Analysis to the Flowing And Artificial Lift Oil Or Gas Well.* Richardson, Texas: Society of Petroleum Engineers SPE 8025.
- Marcu, M. and Irinel, G. (2008). *Genetic Algorithms Applied to Solving the Gas lift Allocation Problem*. Petroleum Gas University of Ploiesti . Bucharest: University Bulletin Technical Serie;2008, Vol. 60 Issue 4.
- Mccaffrey, M. (2012). Oil Fingerprinting Reduce Alllocation Costs. SPE (part of 144618)

 Western North American Meeting (p. 10). Anchorage: Gulf Publishing Company World Oil Journal.
- McCaffrey, M., Ohms, D., Werner, M., Stone, C. and Baski, D. (2011). *Allocating Commingled Production Using Oil Geochemistry*. Weatherford, Research. Dallas: SPE 144618.

- McFarland, J., Lasdo, L. and Loose, V. (1984). *Development Planning and Management of Petroleum Reservoirs Using Tank Models and Nonlinear Programming*. Oprations Reserach Journal, Vol. 32, No. 2, pp.270–289.
- Muellenberg, L., Barnes, D. and Humphrey, K. (1990, June 12). A Production Optimization System for Western Prudhoe Bay Field, Alaska. *SPE 20653 67th Conference* (p. 12). New Orleans: Advanced Technology Series.
- Naus, M., Dolle, N. and Janson, J. D. (2004). Optimization of Commingled Production using Infinitely Variable Inflow Control Valves. *SPE 90959 Annula technical Conference* (p. 9). Houston: Society of Petroleum Engineers.
- Ng Amos, H.C., Bernedixen, J. and Syberfeldt, A. (2010). *Comparative Study of Production Control Mechanisms using Simulation-Based Multi-Objective Optimization*. University of Skovde & Center of Nonlinear Studies. Skovde: International Journal of Production Research.
- Nwosu, H. and Enyiche, M. (2011). *Risk Analysis Methods for Pipeline in Niger Delta*. University of Port Harcourt. Abuja: Journal of Innovative Research in Engineering and Science Volume 2.
- Palen, W. and Goodwin, A. (2008). Increasing production In mature basin. *SPE* 36848European Petroleum Conference (p. 8). Milan: Society of Petroleum Engineers.
- Popa, C., A. Popa, A. and Cover, A. (2004). *Zonal Allocation and Increased Production Opportunities Using Data Mining in Kern River*. Chevron, SPE Annual Technical Conference and Exhibition. Houston: SPE & Pipeline & Gas Journal.
- Rahmawati, S., Whiston, C., Foss, B. and Kuntadi, K. (2010). *Multi-Field Asset Integrated Optimization Benchmark*. Society of Petroleum Engineers. Bercelona: SPE 130768, Annual Conference and Exhibition conference.
- Rajeev, P., Surendranathan, A.O. and Murthy, S.N. (2012). *Corrosion mitigation of the oil well steels using organic inhibitors*. National Institute of Technology, Suratkal, Karnataka, India, Department of Metallurgical & Materials Engineering. Suratkal,: J. Mater. Environ. Sci. 3 (5) (2012) 856-869.

- Richardson, D. (2010). Spatial data Mining for Pipeline data provides CAPEX Optimization. QM4 Engineering Ltd. Houston: NACE International.
- Samal, S., Rao, K.K. and Mukherjee, P.S. (2009). *Optimisation of titanium dioxide rich slag production using statistics based experimental designs in a moving bed plasma*. Institute of Materials Minerals and Mining. Bhubaneswar: Maney Publishing.
- Saputelli, L. A. (2003, 9 2). Promoting Real-Time Optimization (RTO) of Hydrocarbon Producing Systems. *SPE 83978 Offshore Europe*, 9.
- Saputelli, L., Nikolaou, M. and Economides, M. (2006). *Real-time reservoir management: a multi-scale adaptive optimization and control approach*. University of Houston. Houston: Computational Geosciences, Vol. 10,.
- Schachler, S.H. and McKie, C. (2000). *New Mathematical Technique for Oil & Gas Production Optimization*. Edinburgh Petroleum Services Ltd, Petróleos de Venezuela. Paris: SPE 65161 European Petroleum Conference & Nylian Quintero.
- Schlumberger, Abingdon Technology Center Training. (2005). *An Introduction to PVT analysis and compositional simulation*. Houston: Schlumberger.
- Shah, N. and Mishra, P. (2012). *Oil production optimization: a mathematical model*. Online: Journal of Petroleum Exploration and Production Technology.
- Shamlou, S. and Holm, S. (2013). *Simulation based optimization of.* Norwegian University of Science and Technology, Department of Industrial Economics and Technology Management. Trondheim: NTNU Trondheim.
- Sickles, R. and Hartley, P. (2001). A Model of Optimal Dynamic Oil Extraction Middle East. ARAMCO & RICE University. AL-Khobar: Journal of Productivity Analysis.
- Smith, L. and Milanovic, D. (2008). *The Total Control of Well Integrity Management*. ADIPEC 2008. Abu Dhabi: SPE 117121-PP, Intetech Ltd.
- Sokolowski, J. and Banks, C. (2010). *Modeling and Simulation Fundamentals*. Suffolk, VA, USA: John Wiley and SOn Inc.
- Stoisits, R., Crawford, K., MacAllister, D., McCormack, M., Lawal, A. and Ogbe, D. (1999). Production o\Optimization at the Kuparuk River Field Utilizing Neural

- Networks and Genetic Algorithms. *SPE 52177 Mid-Continent Operations Symposium* (p. 12). Oklahoma: SPE & ARCO.
- Subramanian, S.K., Husin, S.H., Yusop, Y. and Hamidon, A.H. (2009). *Machine efficiency and man power utilization on production lines*. Universiti Teknikal Malaysia Melaka, Faculty of Electronics and Computer Engineering. Melaka: 8th WSEAS International Conference on Electronics.
- The Energy Industry Weekly GCC. (2016). *Oil and Gas*. Retrieved from Oil, Gas, Refining and Petrochemicals: http://www.oilandgasnewsworldwide.com
- Tucker, R., Straub, T. and Feng, S. (2012). *Unplanned Downtime A Significant Production Loss Management Opportunity for Producers*. ZIFF Energy group (GOMI. Gulf of Mexico: Journal of Petroleum Technology.
- UAE National Media Council. (2015). *Business Oil and Gas*. Retrieved from UAE Interact: http://www.uaeinteract.com/business/oilandgas.asp
- UK Regulations. (2012). Guidelines for allocating of fluid streams in Oil & Gas Production. Energy Institute UK. London: Energy Institute.
- Urbanczyk, C. H. and Wattenbarger, R. A. (1991). Optimization of Well Rates Under Gas Coning Conditions. *SPE 21677 Production Operations Symposium. 2*, p. 8. Oklahoma: Advanced technologies Series.
- Vangheluwe, H. (2001). *Modelling and SImulation Concepts*. Montreal: McGill University CS522.
- Wang, P. (2003). Development & Applications of Production Optimization Techniques for Petroleum Fields. Stanford University. Stanford: PHD At Stanford University.
- Williams, A. and Aronofsky, J. (1962). *The use of Linear Programming & mathematical models in underground oil production*. New York: Management Science.
- Woo, J.H., Ho Nam, J. and HeeKo, K. (2014). *Development of Simulation Method for Subsea ProductionSystem*. Gwangju Institute of Science and Technology. Gwangju: Korea Maritime University.