

PUBLICATIONS

Books:

Applied Statistical Modeling and Data Analytics, Srikanta Mishra and Akhil Datta-Gupta, Elsevier Inc. (October 2017). ISBN: 978-0-12-803279-4.

Subsurface Imaging and Fluid Flow, D. W. Vasco and Akhil Datta-Gupta, Cambridge University Press (August 2016). ISBN: 978-0-521-51633-4.

Streamline Simulation: Theory and Practice, Akhil Datta-Gupta and M. J. King, Textbook Series #11, Society of Petroleum Engineers, Richardson, TX, ISBN 978-1-55563-111-6 (Nov. 2007).

Editor, History Matching and Conditioning Geologic Models to Dynamic Data, Society of Petroleum Engineers Reprint Series, ISBN 978-1-55563-210-6 (April, 2009).

Other Significant Publications (Peer-Reviewed):

The Oil Spill Recovery Institute: Past, Present and Future, The National Academies Press, Washington D.C. (2003), 165 pages (ISBN: 0-309-08514-4). Co-authored as part of the 'Committee to Review the Oil Spill Recovery Institute's Research Program', National Research Council of the National Academies.

Guidance for Complying with BOEM NTL No. 2010-N06 on Worst Case Discharge for Offshore Wells, Society of Petroleum Engineers (2010). Co-authored as part of the Worst Case Discharge Calculations Committee, Society of Petroleum Engineers.

Peer-reviewed Journal Articles:

1. Feyi Olalotiti-Lawal and Akhil Datta-Gupta, A Multiobjective Markov chain Monte Carlo Approach for History Matching and Uncertainty Quantification, *Journal of Petroleum Science and Engineering*, 2018, <https://doi.org/10.1016/j.petrol.2018.03.062>.
2. Satyajit Taware, Ahmed H. Alhuthali, Mohan Sharma, Akhil Datta-Gupta, Optimal rate control under geologic uncertainty: water flood and EOR process, *Optimization and Engineering*, 2017 (1), 18:63–86 doi:10.1007/s11081-016-9345-y.
3. Changdong Yang, Vishal Kumar Sharma, Akhil Datta-Gupta, Michael J. King, Novel approach for production transient analysis of shale reservoirs using the drainage volume derivative, *Journal of Petroleum Science and Engineering*, Volume 159, 2017, Pages 8-24.
4. Dongjae Kam, Jichao Han, Akhil Datta-Gupta, Streamline-based history matching of bottomhole pressure and three-phase production data using a multiscale approach, *Journal of Petroleum Science and Engineering*, Volume 154, 2017, Pages 217-233.

5. Peerapong Ekkawong, Jichao Han, Feyi Olalotiti-Lawal, Akhil Datta-Gupta, Multiobjective design and optimization of polymer flood performance, *Journal of Petroleum Science and Engineering*, Volume 153, 2017, Pages 47-58.
6. Watanabe, S., Han, J., Hetz, G., Datta-Gupta, A., King, M. J., & Vasco, D. W. (2017, August). Streamline-Based Time-Lapse-Seismic-Data Integration Incorporating Pressure and Saturation Effects. *Society of Petroleum Engineers Journal*. doi:10.2118/166395-PA.
7. Changdong Yang, Aditya Vyas, Akhil Datta-Gupta, Shreya B. Ley, Partha Biswas, Rapid multistage hydraulic fracture design and optimization in unconventional reservoirs using a novel Fast Marching Method, *Journal of Petroleum Science and Engineering*, Volume 156, 2017, Pages 91-101.
8. Fujita, Y., Datta-Gupta, A., & King, M. J. (2016, December 1). A Comprehensive Reservoir Simulator for Unconventional Reservoirs That Is Based on the Fast Marching Method and Diffusive Time of Flight. *Society of Petroleum Engineers Journal*. doi:10.2118/173269-PA.
9. Cui, J., Yang, C., Zhu, D., & Datta-Gupta, A. (2016, December 1). Fracture Diagnosis in Multiple-Stage-Stimulated Horizontal Well by Temperature Measurements With Fast Marching Method. *Society of Petroleum Engineers*. doi:10.2118/174880-PA.
10. Kam, D., and Datta-Gupta, A. (2016, April 1). Streamline-Based Transport Tomography With Distributed Water Arrival Times. *Society of Petroleum Engineers*. doi:10.2118/169105-PA.
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12. Xie, J., Gupta, N, King, M. J. and Datta-Gupta, A., Depth of Investigation and Depletion Behavior in Unconventional Reservoirs Using Fast Marching Methods *SPE Journal*, Volume 20 (4) (August, 2015).
13. Xie, J., Yang, C., Gupta, N., King, M. J., and Datta-Gupta, A., Integration of Shale Gas Production Data and Microseismic for Fracture and Reservoir Properties Using Fast Marching Method, *SPE Journal* Volume 20 (2) (April, 2015).
14. Improved Characterization and Performance Prediction of Shale Gas Wells by Integrating Stimulated Reservoir Volume and Dynamic Production Data, *Journal of Petroleum Science and Engineering*, <http://dx.doi.org/10.1016/j.petrol.2015.01.030> (February 2015).
15. Park, H. and Datta-Gupta, A., Handling Conflicting Multiple Objectives Using Pareto-based Evolutionary Algorithm During History Matching of Reservoir Performance, *Journal of Petroleum Science and Engineering*, Volume 125, January 2015, Pages 48-66.
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Peer-reviewed Book Chapters:

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