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### PUBLICATIONS

#### Book

*Foundations of Mathematical Modeling and Analysis in Engineering*, A. Ted Watson, Elsevier, 2025.

#### Refereed Articles

1. Watson, A.T., Seinfeld, J.H., Gavalas, G.R., and Woo, P.T., "History Matching in Two Phase Petroleum Reservoirs," *Society of Petroleum Engineers Journal*, **20**(6), pp. 521-532, 1980.
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12. Ruff, W.A., Glover, C.J., and Watson, A.T., Lau, W.R., Holste, J.C., "Multicomponent Vapor Liquid Equilibria from Perturbation Chromatography, Part II: Application to the Polybutadiene/Benzene/Cyclohexane Ternary System," *AIChE Journal*, **32**(12), pp. 1954-1962, 1986.
13. Kerig, P.D. and Watson, A.T., "A New Algorithm For Estimating Relative Permeabilities From Displacement Experiments," *SPE Reservoir Engineering*, **2**(1), pp. 103-112, 1987.
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15. Tao, T.M. and Watson, A.T., "A Data-Fitting Algorithm with Shape Preserving Features," *AIChE Journal*, **33**(9), pp. 1567-1570, 1987.
16. Watson, A.T., Gatens III, J.M., and Lane, H.S., "Model Selection for Well Test and Production Data Analysis," *SPE Formation Evaluation*, **3**(1), pp. 215-221, 1988.
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## Invited Articles, Reviews, and Book Chapters

70. Watson, A.T., Wade, J.G., and Ewing, R.E., "Parameter and System Identification for Fluid Flow in Underground Reservoirs," *Proceedings of the Conference: Inverse Problems and Optimal Design in Industry, July 8-10, 1993, Philadelphia, Pa.*, Ed. H.W. Engl and J. McLaughlin, B.G. Teubner, Stuttgart, Germany, 1994.
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## Technical Meeting Papers

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92. Richmond, P.C., and Watson, A.T., "Estimating Multiphase Flow Functions From Displacement Experiments," *AIChE Annual Spring Meeting New Orleans*, 1988.
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101. Kim, K.-H., Chen, S., Qin, F., and Watson, A.T., "Use of NMR Imaging for Determining Fluid Saturation Distributions During Multiphase Displacement in Porous Media," *Proceedings 33rd Annual Symposium of SPWLA*, 1992.
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