



1980 台大化工學士畢業
1987 Stanford 化工博士畢業
1987-1999 Mobil Oil Company
1999-2018 Saudi Arabia Oil Company

From Chemical to Petroleum Engineering - Fundamentals of Reservoir and Basin Simulations

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Reservoir simulation models are utilized by oil and gas companies in the development of new fields and evolving fields where production forecasts are needed to help make investment decisions. Due to the unique feature of giant fields in Middle East reservoirs, high performance parallel simulation technology has been placed at frontiers of the Saudi Arabia oil/gas field production strategy.

On the other end, basin modeling has become a standard practice in the upstream oil and gas industry in past decades. The numerical approach to model geologic processes that lead to the accumulation of hydrocarbons shares many similarities with the reservoir modeling. Basin simulation does not only aid exploration in ranking discovery opportunities but also become essential in identifying new unconventional resources.

In this presentation, I will introduce the latest advancement in reservoir and basin simulations, and provide you with insights on how did I go from a chemical engineer to a petroleum engineer.