

*International Workshop on Efficient Techniques for Numerical Solutions of Coupled PDE's
and Applications to Reservoir Simulation, December 14-17, 2003, IPM, Tehran*

Newly Developed Techniques for Static Reservoir Modeling

A. Bastani

*Research Institute of Petroleum Industry (RIPI)
Tehran, Iran*

Static (geological) Reservoir Modeling is one of the most important steps in a Comprehensive Study of Reservoirs. Among the Mathematical Techniques that are widely used in geological modeling, are scattered data interpolation and approximation and also parameter Estimation Techniques. In this talk we will review several techniques for scattered data Interpolation and approximation and one important simulation, technique for petrophysical parameter Estimation which is called MCMC Method.

We will discuss their Numerical efficiency with some case studies.