



# **INTEGRATED RESERVOIR STUDIES**

## **(Fundamentals of Exploration and Production)**

*Luca Cosentino*

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Contents: 1. Integration issues: What is integration? Systems thinking. A Change of focus. Integrating the information. Accuracy vs. precision. Complexity vs. accuracy. Other integration issues. The role of the project manager. 2. The integrated database: Definitions. The problem of the integrated database. The three levels of E&P databases. The project database. Project database management. Software integration. 3. Integrated geological model: The structural model. The stratigraphic model. The lithological model. Reservoir heterogeneity. 4. Rock properties: Petrophysical evaluation. Rock properties distribution. 5. Hydrocarbon in place determination: Volumetric estimates. Material balance estimates. 6. Basic reservoir engineering: Reservoir natural drive mechanisms. Fluid properties. Rock-fluid properties. Pressure analysis. Reservoir fluids distribution and monitoring. Material balance. Streamlines simulation. 7. Numerical reservoir simulation: When to run a simulation model? Why run a simulation model? Designing the simulation model. Building the simulation grid. Assigning the input parameters. History matching. Production forecasts. Uncertainty assessment. 8. Planning a study: Planning vs. integration. Estimation of individual work phases. Sequential planning. Integrated planning. Conclusions. References. Appendix. Index.

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