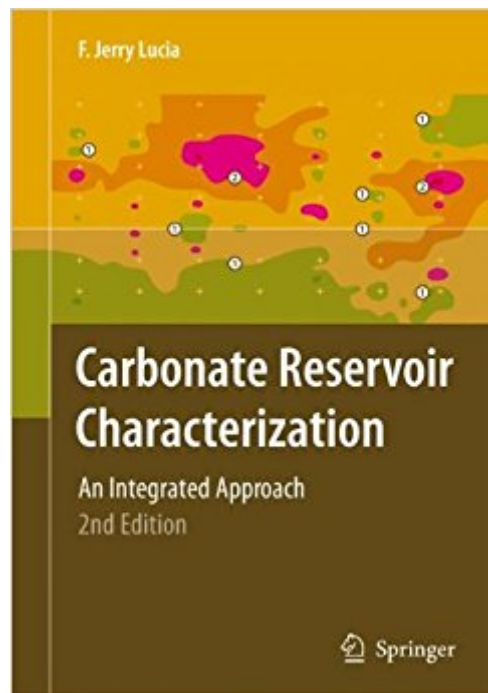




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Carbonate Reservoir Characterization: An Integrated Approach



Synopsis

F. Jerry Lucia, working in America's main oil-rich state, has produced a work that goes after one of the holy grails of oil prospecting. One main target in petroleum recovery is the description of the three-dimensional distribution of petrophysical properties on the interwell scale in carbonate reservoirs. Doing so would improve performance predictions by means of fluid-flow computer simulations. Lucia's book focuses on the improvement of geological, petrophysical, and geostatistical methods, describes the basic petrophysical properties, important geology parameters, and rock fabrics from cores, and discusses their spatial distribution. A closing chapter deals with reservoir models as an input into flow simulators.

Book Information

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Customer Reviews

Jerry Lucia has spent 50 years researching and developing carbonate reservoirs, first for the Shell Oil Company and now with the Bureau of Economic Geology at the University of Texas in Austin. He has a long history of working in integrated teams of geologists, petrophysicists, reservoir engineers, and geophysicists. During that time he has been instrumental in developing a rock-based approach to carbonate reservoir characterization. That approach is the subject of this book.

When talking about Carbonate rocks Jerry Lucia is always there, this book discusses a lot of nice details that concern carbonate rocks. It starts from the basics and reading forward you will end up with discussions about carbonate modeling. Every chapter covers a different subject. I didn't feel bored.

reading through it, every chapters is more interesting than the one before it. Rock fabric classification I had to read twice just to get a good understanding of it, limestone and dolostone reservoirs each have their own chapters with plenty of details discussion, touching vugs reservoirs and the uses of wireline logs including borehole images. I highly recommended it for anyone with carbonate interest.

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