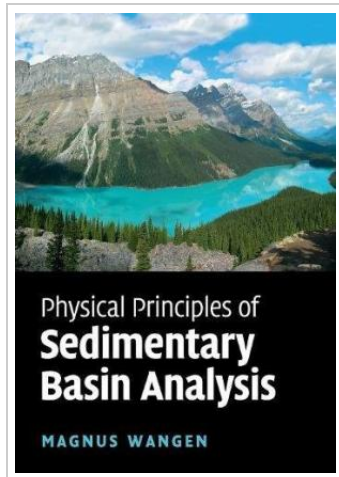




Physical Principles of Sedimentary Basin Analysis (Paperback)

By Magnus Wangen

CAMBRIDGE UNIVERSITY PRESS, United Kingdom, 2018. Paperback. Condition: New. Reprint. Language: English . Brand New Book ***** Print on Demand *****. Presenting a rigorous treatment of the physical and mechanical basis for the modelling of sedimentary basins, this book supplies geoscientists with practical tools for creating their own models. It begins with a thorough grounding in properties of porous media, linear elasticity, continuum mechanics and rock compressibility. Chapters on heat flow, subsidence, rheology, flexure and gravity consider sedimentary basins in the context of the Earth's lithosphere, and the book concludes with coverage of pore space cementation, compaction and fluid flow. The volume introduces basic, state-of-the-art models and demonstrates how to reproduce results using tools like MATLAB (R) and Octave. Main equations are derived from first principles, and their basic solutions are obtained and then applied. Separate notes sections supply more technical details, and the text is illustrated throughout with real-world examples, applications and test exercises. This is an accessible introduction to quantitative modelling of basins for graduate students, researchers and oil industry professionals.

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Reviews

It is great and fantastic. Better than ever, though I am quite late in starting reading this one. It has been written in an extremely simple way and is particularly only right after I finished reading this ebook where it actually changed me, affected the way I really believe.

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