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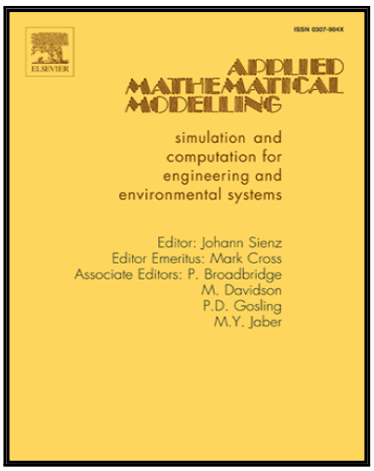

An Analytical Solution for Displacements due to Reservoir Compaction Under Arbitrary Pressure Changes

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Highlights

- An analytical solution for displacements due to arbitrary pressure changes in reservoirs is proposed.
- The solution is obtained through the three-dimensional integration of the nucleus of strain approach solution.
- The solution allows the calculation of displacements inside and outside the reservoir.
- The results agree well the solution obtained via FEM.

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