This CD accompanies the book. MPSFFA has the capacity to simulate any single-phase (oil, gas, or water), two-phase (oil-water, oil-gas, or gas-water), three-phase black-oil (oil-water-gas), and three-phase four-component (oil-water-gas-polymer) reservoirs. MPSFFA can be used to simulate field cases using rectangular coordinates (*x-y-z* space) and single-well performance using radial-cylindrical coordinate (*r-z* space). MPSFFA uses direct solvers and advanced iterative solvers.

The CD contains seven folders and five files.

1. The Compiled Programs folder contains two executable files of the simulator, one was compiled with [mpsffav1-16(debug)] and the other without debugging options [mpsffav1-16(release)].
2. The Fortran Program Files folder contains FORTRAN-95 listings of the simulator (mpsffav1-16.for) and the dimensioning program (sizempsffav1-16.for).
3. The Matlab Program Files folder contains a post processor (mpsffa\_pp.m), for the simulator generated results. This program internally calls the other file (menu1.m) in this folder. The user must have access to MATLAB program in order to make use of the post processor.
4. The Model Data Files folder contains *Notepad* listings of eleven model data files for different cases ranging from single-phase, two-phase, to three-phase and from one- dimensional, two-dimensional, to three-dimensional reservoirs in rectangular coordinates for field simulation and radial-cylindrical coordinates for single-well simulation. Seven of the data files are prepared to simulate problems reported in the literature.
5. The Outputs for Model Data Files folder contains the listings of the simulator generated output files for the eleven data files contained in the Model Data Files folder.
6. Example of Output Files Generated by the Simulator.
7. Field Case folder.
8. Excel program [Wellblock Geometric Factor (Gwi).xls] to estimate wellblock geometric factors for wells in field cases and in single-well simulation cases.
9. User’s manual for MPSFFA (ver. 1-16).
10. MS Word file containing important notes on results and data preparation.
11. Important Notes file.
12. CD Contents file.