



On the Lattice Boltzmann Method : Implementation and Applications .

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We studied the development and different types of the Lattice Boltzmann method. We gave several implementations. Then we presented two moving boundary treatments for the Lattice Boltzmann method, the second one is new. We also gave an incompressibility enhancement for the Lattice Boltzmann method in order to better simulate some problems using the moving boundary. Finally we gave a MHD solution using the Lattice Boltzmann method.

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