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methods of computational fluid dynamics (CFD) that give the solution of PDEs describing the plasma as a fluid. The basic computational techniques are based on the construction of a discrete grid and the

Fluid Model of Plasma and Computational Methods for Solution

Assuming no prior knowledge of plasma physics or numerical methods, Computational Methods in Plasma Physics covers the computational mathematics and techniques needed to simulate magnetically confined plasmas in modern magnetic fusion experiments and future magnetic fusion reactors.

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PARTICLE METHOD FOR 1D PLASMA MODEL method and the resulting construction of a steady state will we consider a two-species plasma. In addition to ions of differing charges, a number of particle masses can be involved, but throughout we will consider the mass of each ion in the plasma to be normalized to one.

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