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Summary. A complete mathematical model of a plasma requires three basic elements: first, the motion of all particles must be determined for some assumed electric and

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magnetic field configuration; second, the current and charge densities must be computed from the particle trajectories; and third, the electric and magnetic fields must be self-consistently determined from the currents and charges, taking into account both internal and external sources.

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Single-Particle Motions (Chapter 3) -

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electromagnetic fields, and second, the fields are created by charge and current densities caused by these particles.

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