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Vast majority of plasma physics is contained in the Vlasov-Maxwell equations that describes the evolution of a particle distribution  $f_s(t,x,v)$  function in 6D phase-space. The particles move in electromagnetic fields that come from two sources: external coils and electrodes and the fields generated by the motion of the particles themselves.

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Plasma (from Ancient Greek πλάσμα , meaning 'moldable substance') is one of the four fundamental states of matter, and was first described by chemist Irving Langmuir in the 1920s. It consists of a gas of ions, atoms which have some of their orbital electrons removed, and free electrons. Plasma can be artificially generated by heating or subjecting a neutral gas to a strong electromagnetic ...

## **Plasma (physics) - Wikipedia**

Further applications of plasma physics include space propulsion and nanotechnology. Plasma behavior is modeled by systems of partial differential equations, which in most non-trivial cases require numerical methods to solve. Thus much effort is devoted to mathematical modeling and developing scalable iterative solvers.

## **Numerical Methods for Plasma Physics | Mikhail Khodak**

Methods include the finite difference time domain method, boundary element methods, Greens functions methods, finite element methods, the discrete dipole approximation and relaxation methods. Cross-list: ELEC 605.

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"For his numerous contributions to experimental plasma physics

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and spectroscopy, particularly in the area of improved diagnostic methods for high temperature plasmas, and for his books on plasma spectroscopy and spectral line broadening in plasmas that have become standard references in the field." 1992 John M. Greene: United States

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