

**KINETIC SIMULATIONS OF ION TRANSPORT IN
FUSION DEVICES (SPRINGER THESES)**

William Lettieri

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Towards a unified linear kinetic transport model with the trace ion module for EIRENE

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The kinetic neutral transport code EIRENE is supplemented by a trace ion module [23,24], for simulation of the complicated catabolism mechanisms of these hydrocarbons in the fusion plasma. At low densities, e.g. closer to the target plates of a fusion device, even small Kloeden P.E., Platen E. Springer;

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Appendix E. Several types of neutron detectors exist which can record the rate at which neutrons are produced during fusion reactions. Springer Professional.

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It is this large amount of fuel that gives rise to the possibility of a meltdown; nothing like this exists in a fusion reactor. A number of improvements to the design are now part of the "advanced tokamak" concept, which includes non-circular plasma, internal diverters and limiters, often superconducting magnets, and operate in the so-called "H-mode" island of increased stability. Glaser, A.

Thus,anumericalpredictivetoolcanbeusedtoimprovetheheatingefficien
approximate model for transport of ionized particles along magnetic field lines has previously also been part of the EIRENE code.