

INHALTSVERZEICHNIS

Bericht über die Tagung "Mathematische Methoden der Plasmaphysik" in Oberwolfach	1
Klaus ELSÄSSER, Winfried MAASJOST: Macroscopic and Micro- scopic Models for the Relativistic Beam-Plasma Instability - a Comparison	5
K.Graf FINCK von FINCKENSTEIN: Difference Methods for strongly coupled Systems of Diffusion Equations from Plasma Physics	7
R.J.GRIBBEN: Propagation of Slowly Varying Nonlinear Waves in Plasma I: General Theory	25
E.J.PARKES: Propagation of Slowly Varying Nonlinear Waves in Plasma II: Cold and Warm Plasma Strams	37
R.KEIL: Solution of Boundary Value Problems in a Torus with Circular Cross Section Using Variational Methods	51
K.KNORR, M.MOND: The Representation of Shock-Like Solutions in an Eulerian Mesh	67
S.KUHN: An Integral Approach of Successive Collisions to Linear Charged-Particle Transport Through a Finite Slab	99
H.SCHAMEL: Kinetic Theory of Ponderomotive Effects in a Plasma	129
G.SPINDLER: A Implicit Hydrodynamic One-Dimensional Lagrangian Code for Pellet Compression Computations	147
B.STEFFEN: An Inverse Sturm-Liouville-Problem	171
P.VACHENAUER: On Characteristic Like Methods and an Application to Ideal MHD Equations	185
J.VOGEL: Numerical Methods of the Heat Conduction Solving in Calorimetric Probes in Plasma Jet ...	195
H.U.SCHMIDT, R.WEGMANN: MHD-Calaculations for Cometary Plasmas	211
J.DENAUIT: Pitfalls in Particle Simulations and in Numerical Solutions of the Vlasov Equation	247
H.NEUNZERT, J.WICK: The Convergence of Simulation Methods in Plasma Physics	271
Sh.KANIEL: Approximation of the Hydrodynamic Equations by a Transport Process	287