

Figure 1: The $n = 1$ drift instability ($k_{\perp} \rho_i = 0.8$) for the run with 987 particles on a 16-grid system. (a) The time history for the real (solid line) and imaginary (dashed line) parts of the electrostatic potential and (b) the corresponding amplitude evolution.

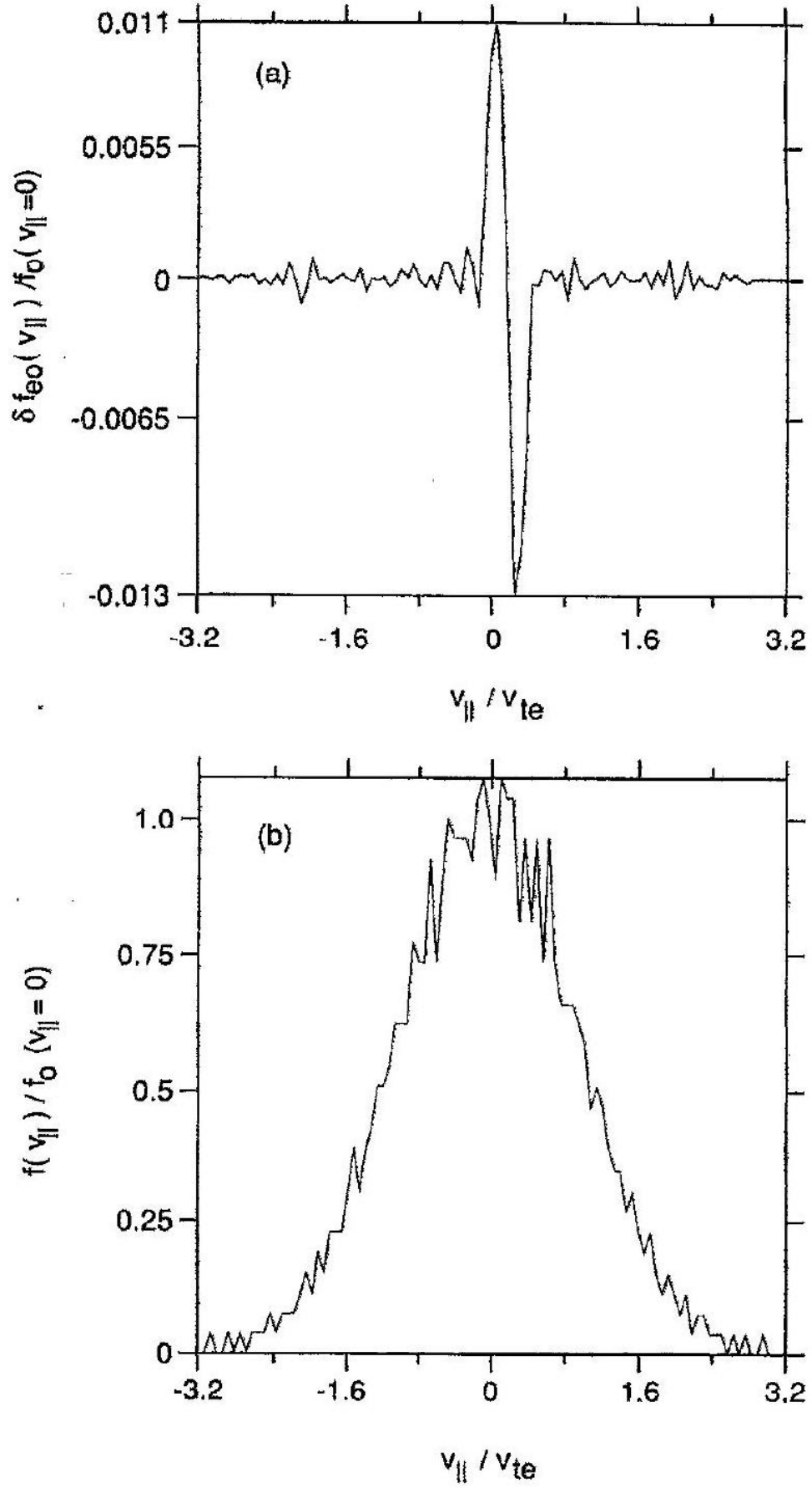


Figure 2: The 987 particle run at $\Omega_e t = 500$. (a) The perturbed electron distribution $\delta f(k=0)/f_o(v_{\parallel}=0)$ and (b) the total electron distribution $f/f_o(v_{\parallel}=0)$.

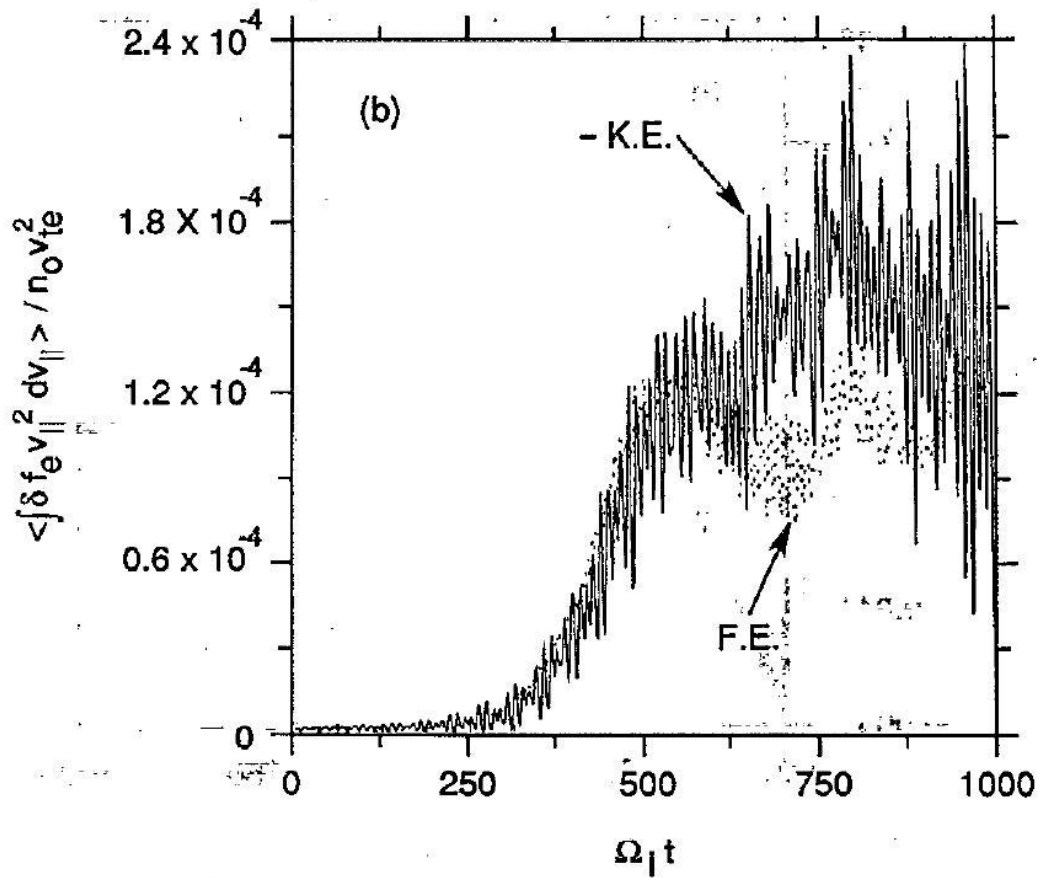
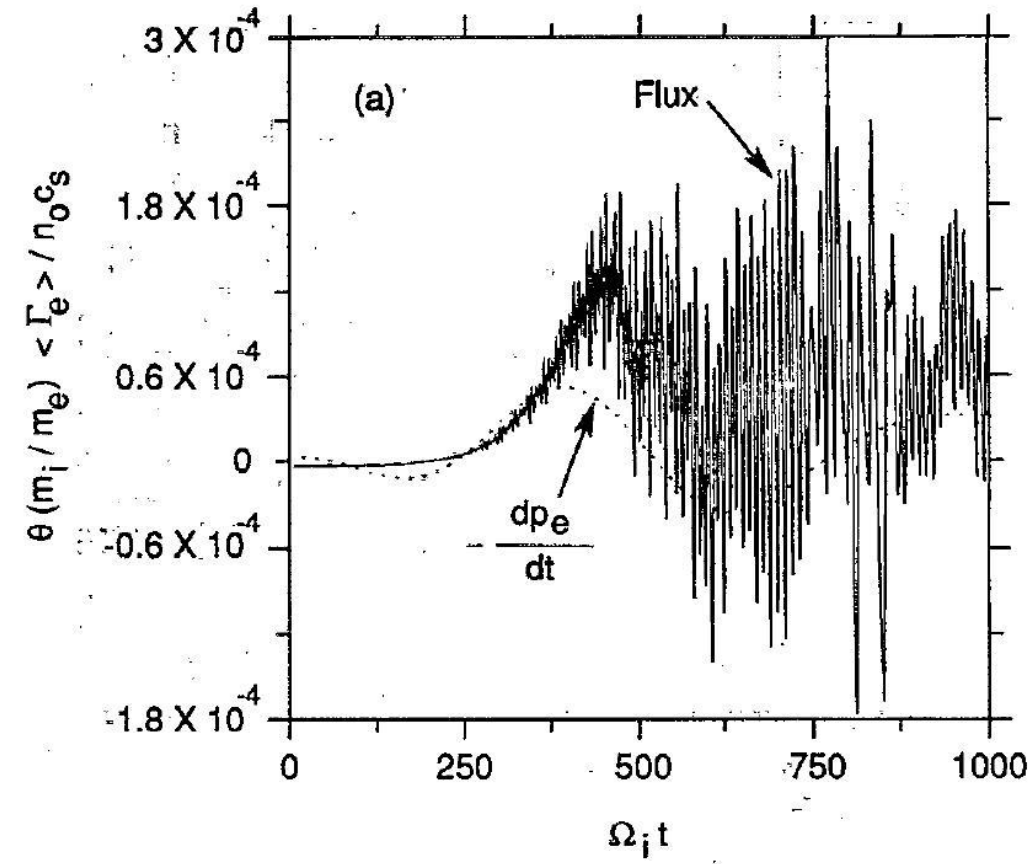


Figure 3: The 987 particle run. (a) Time history for the electron particle flux (solid line) and the time rate of change for the electron parallel momentum (dashed line) and (b) the time evolution for the perturbed electron kinetic energy (solid line) and the field energy (dashed line).

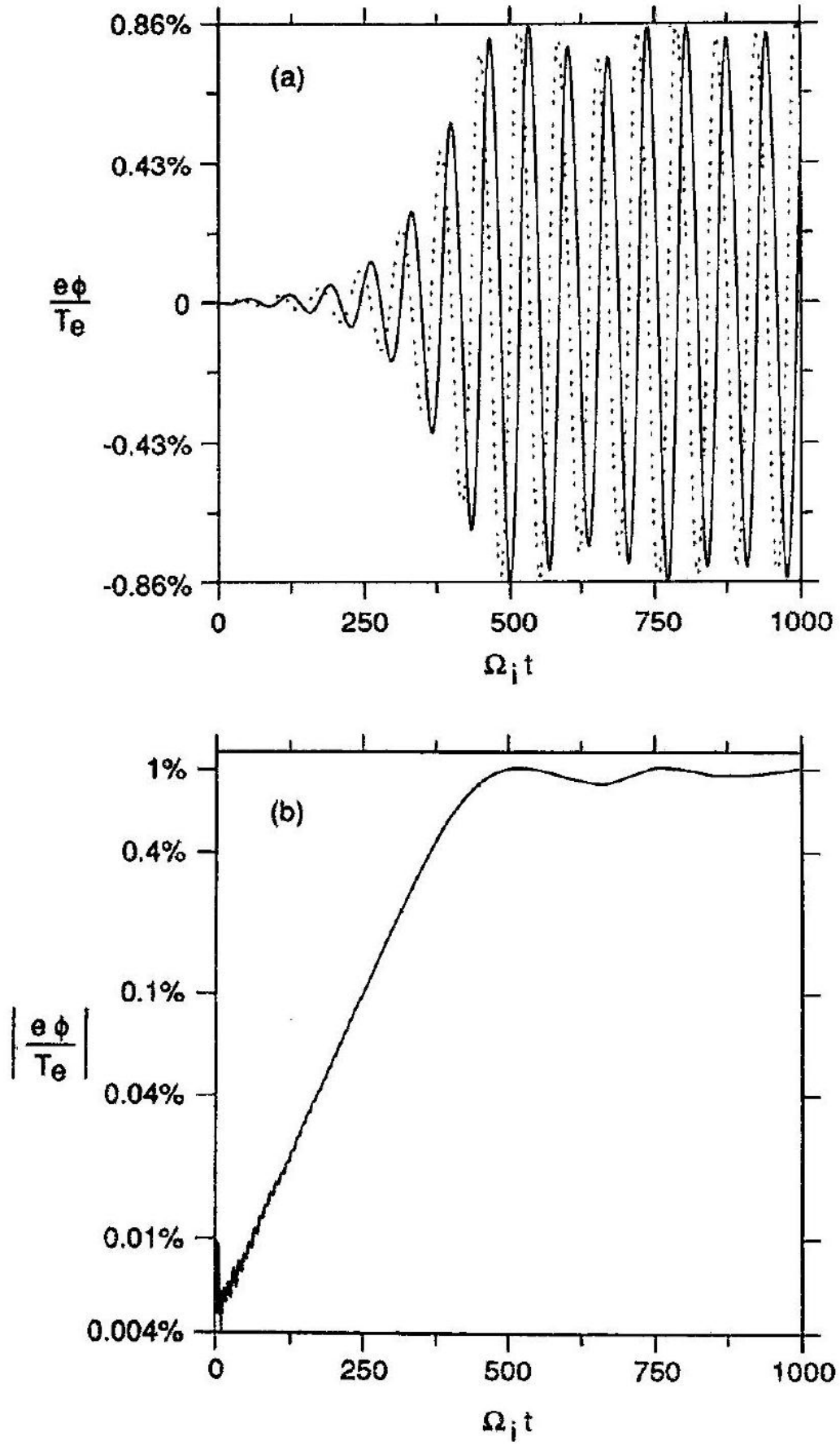


Figure 4: The $n = 1$ drift instability ($k_{\perp} \rho_i \approx 0.8$) for the run with 46368 particles on a 64-grid system. (a) The time history for the real (solid line) and imaginary (dashed line) parts of the electrostatic potential and (b) the corresponding amplitude evolution.

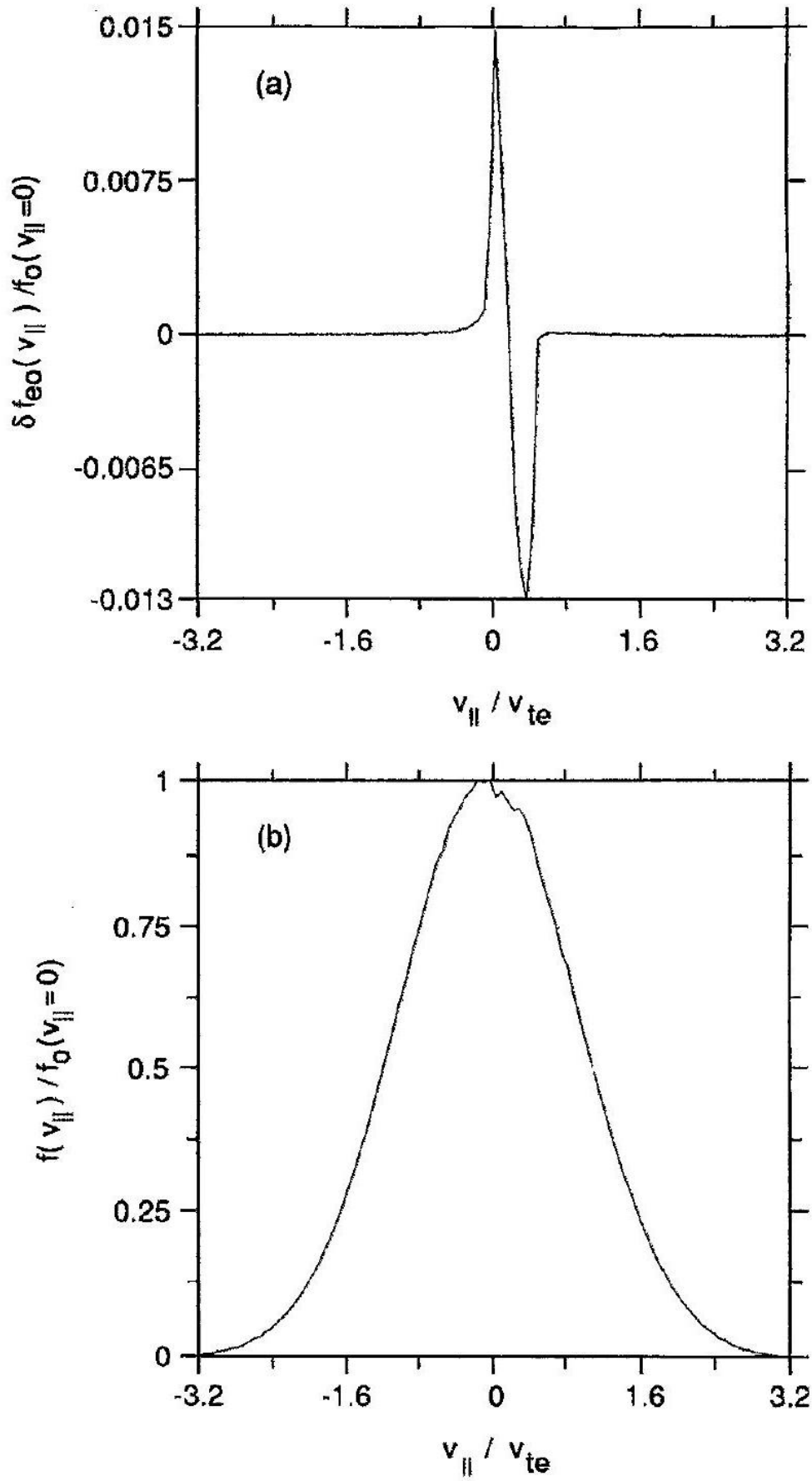


Figure 5: The 46368 particle run at $\Omega_e t = 500$. (a) The perturbed electron distribution $\delta f(k=0)/f_0(v_{\parallel}=0)$ and (b) the total electron distribution $f/f_0(v_{\parallel}=0)$.

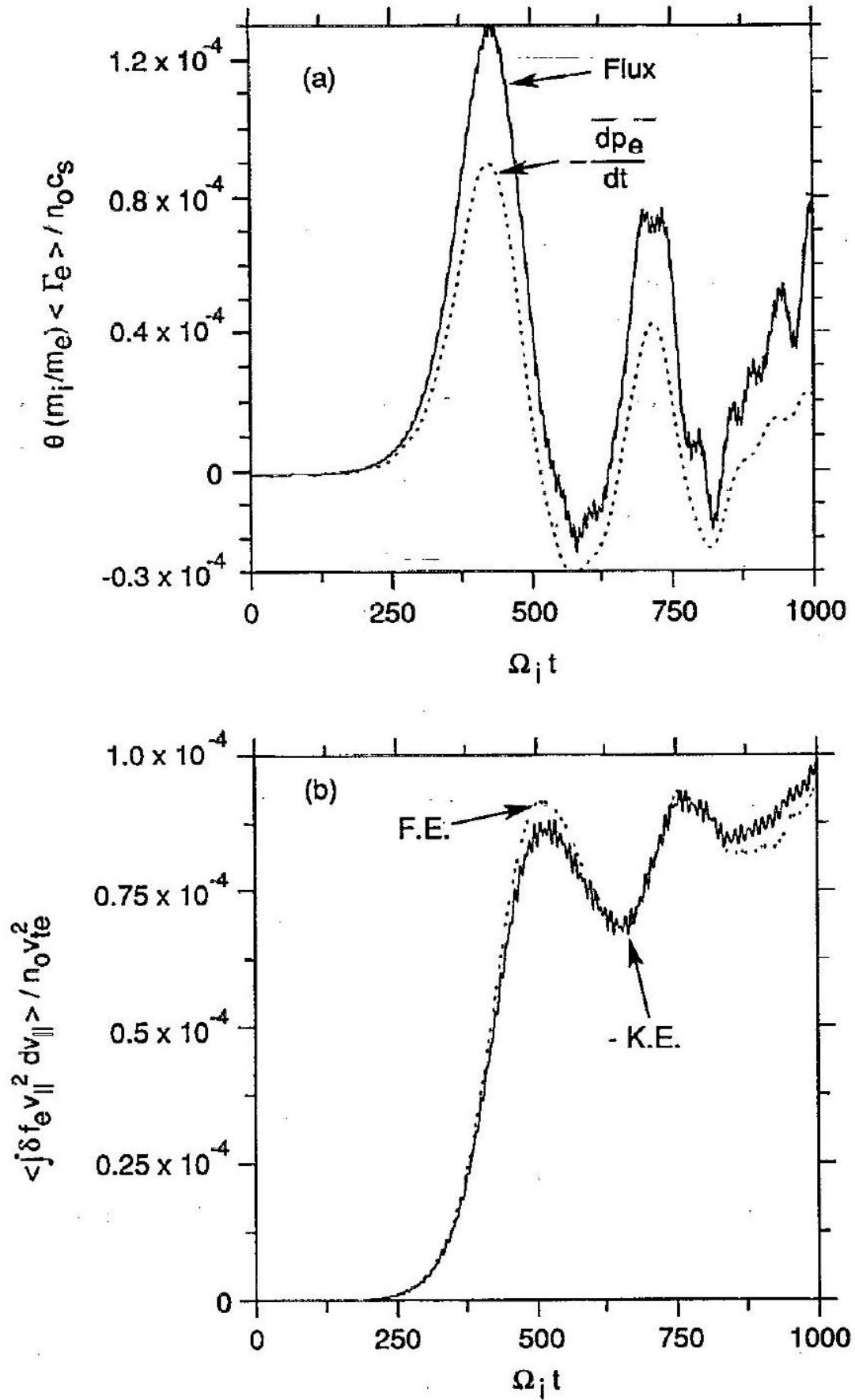


Figure 6: The 46368 particle run. (a) Time history for the electron particle flux (solid line) and the time rate of change for the electron parallel momentum (dashed line) and (b) the time evolution for the perturbed electron kinetic energy (solid line) and the field energy (dashed line).