PHYSICAL KINETICS

• 10 October
  LECTURE 1

• 12 October
  LECTURE 2
  $\tau$ - approximation for collision integral. Diffusion equation, linear response, conductivity and the Einstein relations. Magnetoresistance, the Hall effect and thermo-power for electrons in metals.

• 17 October
  LECTURE 3

• 19 October
  LECTURE 4

• 24 October
  LECTURE 5
  Diffusion approximation for the Boltzmann equation. Fokker-Plank equation for heavy particle in a gas of light particles.
• 26 October
LECTURE 6
Hot electrons in semiconductors and weakly ionised plasma. Electron temperature, current-voltage characteristics, the energy relaxation rate.

• 31 October
LECTURE 7

• 2 November
LECTURE 8
Boundary problem for kinetic equation. Normal and anomalous skin-effect.

• 7 November
LECTURE 9

• 9 November
APPENDIX 10
Dynamical Derivation of Boltzmann Equation.

• 14 November
LECTURE 11
• 16 November
LECTURE 12

• 21 November
EXERCISES - 1

• 23 November
EXERCISES - 2