

# Many-Body Theory

## Application to Electrons in Solids

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- Propagators and Green's Functions
- Green's Function for Schrödinger Equation
- Functions of a Complex Variable
- Contour Integrals in the Complex Plane
- Schrödinger, Heisenberg, Interaction Pictures
- Occupation Number Formalism
- Field Operators
- Wick's Theorem
- Many-Body Green's Functions
- Equation of Motion for the Green's Function
- Evaluation of the Single Loop Bubble
- The Polarisation Propagator
- The GW Approximation
- Numerical Aspects of Many-Body Theory
- The GW Approximation
- Hybrid Density functionals
- The Bethe-Salpeter Equation

# Course On Manybody Theory Applied To Solidstate Physics

**R Sandford**



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