I. Why coupled-cluster theory?
   Extensivity. Power of exponential wavefunction.

II. Systematic development of CC tools.
   Second-quantization
   Normal Ordered Operators
   Wick’s Theorem-Contractions

III. Coupled-cluster doubles Eqns.
   Algebraic Derivation
   Diagrammatic derivation
   Connections with Perturbation Theory

IV. CCSD Eqns.

V. Density Matrices
VI. CCSDT Eqns.
   CCSD(T)
   CCSDTQ_f
   CCSDT(Q)

VII. Distinguished Cluster Approximations

VIII. Analytic Gradients and Properties

IX. Equation-of-Motion CC Method for Excited States
    IP/EA-EOM-CC
    EE-EOM-CC

X. STEOM-CC