

MICRO

QM

Blackbody Rad; Photoelectric Effect
Bohr De Broglie

SCHRÖDINGER EQ.

QUANTIZATION \longleftrightarrow

PARTICLE IN A BOX
HYDROGEN ATOM
ATOMS

MOLECULES

Chemical Bond

MO Diatomic + Triatomic

LCAO, Valence Bond Theory, Hybridization

SPECTROSCOPY

LIGHT + MATTER

Vib-Rot \rightarrow IR, MicroW

Electronic Trans \rightarrow UV, Vis

NMR

COORDINATION COMPLEXES

CRYSTAL FIELD THEORY

LIGAND FIELD THEORY

COMPLEX IONS

MACRO

GASES

IDEAL
REAL

SOLUTIONS

EQUILIBRIUM \rightleftharpoons MASS ACTION LAW

SOLIDS

ACID & BASES
WEAK + STRONG

BUFFER
TITRATIONS

SOLUBILITY PRODUCT

PH EFFECT

COMPLEX ION

Phase Diagrams & Colligative Properties

† THERMODYNAMICS

Statistical Mechanics

kinetic theory