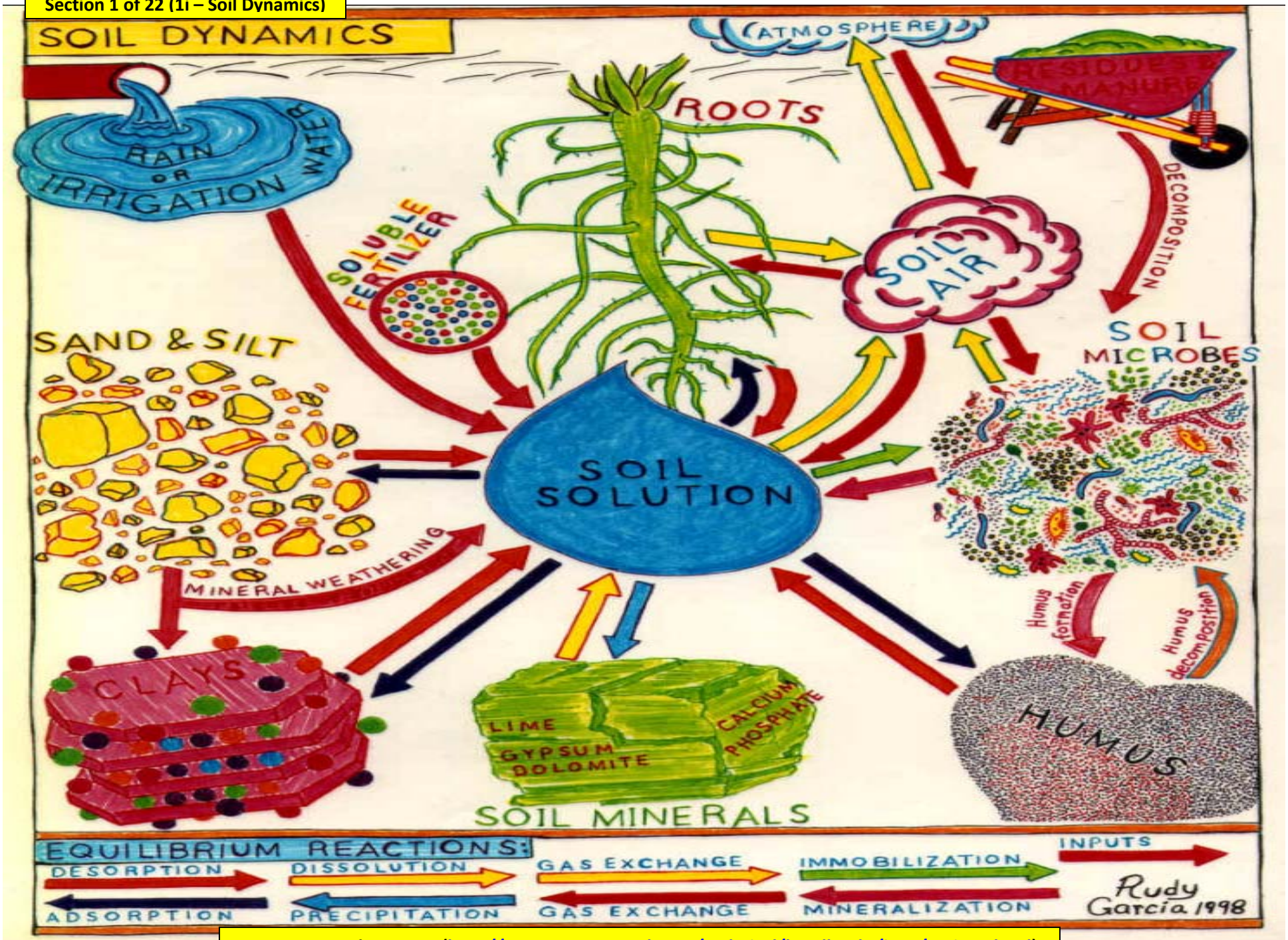
SOIL DYNAMICS
ATMOSPHERE
RAIN OR IRRIGATION WATER
ROOTS
RESIDUES & MANURE
DECOMPOSITION
SOLUBLE FERTILIZER
SOIL AIR
SAND & SILT
SOIL MICROBES
SOIL SOLUTION
MINERAL WEATHERING
Humus formation
Humus decomposition
CLAYS
LIME
GYPSUM
DOLOMITE
CALCIUM PHOSPHATE
HUMUS
SOIL MINERALS
EQUILIBRIUM REACTIONS:
DESORPTION
ADSORPTION
DISSOLUTION
PRECIPITATION
GAS EXCHANGE
GAS EXCHANGE
IMMOBILIZATION
MINERALIZATION
INPUTS
Rudy Garcia 1998