



Neuroscience

(78)

Paul A. Weiss. Das lebende System.

1960-c

1+1 ≠ 2

L 16

801. reductionism. adding up a piece to get the  
the micro information about the smallest simple units.

systems with aspect of whole not confined to given  
network.

802. phenomena & what describe whole is not  
in mere algebraic terms the the sum of elementary  
phenomena & composition; it is different. the difference  
is that there is a structure. (= v. Foerster.)

ecology,  
evolution,  
resist theory.

803. "What we perceive as static form is but the  
product, transitory or lasting, of formative  
process."

evolution

805. Collections tend to display novel features  
not discernible in their component units, hence  
justly called "emergent".

such features are indicative of the existence  
of significant relationships among the members  
of the collective

2) elements are in fact via static regularities  
of patterns - one one must look behind them -  
for the rules is the play of forces that have shaped  
them.

808 regression for elements & groups

809 form = master indicator of order

P. Weiss.

2

8/4/5 system. custom & explain group behavior of interactive behavior of quasi independent unit actors (analytic method) are must pre equal status & collective statements of facts in their own right. (describes some thermodynamic quantum theory, relating to statistical mechanics. learn & accept recognized orderliness, even can not be reduced to problem of the component parts.

816 role of unit size.

819 Example of self organization.  
but there is → Lovick and VNB.

819. To emphasize the systems' character of the dynamics of living entities, I have since 1923 included their description in terms of "fields".

820. strict determinacy of a collective end state fully reconcilable with indeterminacy in detail in the component of courses of events leading up to it.



field structure of the process.

Paul Weiss 1+1 ≠ 2 (One plus one does not equal two)

820 field = symbolic term f. the unitary dynamics underlying actual behavior.

801 success story of learning

801 reductionism: macroformation derived completely from adding up all microformations.

801 systems & with aspects of whole never cell by no means composed (forming) nature.

802 current fad: subject matter of life sciences in terms of dynamic solution: molecular vs. organismic biology  
reductionist holistic philosophy

Exclusive commitment to either Hegel is an extreme. Both complementary & reciprocal

803 whole process is static form, transitory or lasting, of formative processes.

(emergence)

803 a) Collections tend to present novel features, not discernible in their component units.

b) each feature are indicative of the existence of significant relationships among the members of the collection

c) whenever one is faced with static geometric regularities of patterns, look behind for the rules in the play of forces that have shaped them. Thus static interrelations become dynamic interactions & interdependencies.

808. Ind. freedom is the most compatible with collective order in us

hereditary B.